

ATOM 1	N	GLY A	1120.138	11.140	-2.903	1.00	0.00	N
ATOM 2	CA	GLY A	1120.658	10.305	-1.785	1.00	0.00	C
ATOM 3	C	GLY A	1120.202	8.862	-1.879	1.00	0.00	C
ATOM 4	O	GLY A	1119.025	8.590	-2.119	1.00	0.00	O
ATOM 5	1H	GLY A	1120.758	11.050	-3.733	1.00	0.00	H
ATOM 6	2H	GLY A	1120.103	12.139	-2.617	1.00	0.00	H
ATOM 7	3H	GLY A	1119.180	10.832	-3.164	1.00	0.00	H
ATOM 8	1HA	GLY A	1121.737	10.331	-1.802	1.00	0.00	H
ATOM 9	2HA	GLY A	1120.312	10.720	-0.850	1.00	0.00	H
ATOM 10	N	SER A	2121.135	7.935	-1.688	1.00	0.00	N
ATOM 11	CA	SER A	2120.822	6.512	-1.752	1.00	0.00	C
ATOM 12	C	SER A	2119.883	6.109	-0.621	1.00	0.00	C
ATOM 13	O	SER A	2119.959	6.647	0.484	1.00	0.00	O
ATOM 14	CB	SER A	2122.107	5.683	-1.684	1.00	0.00	C
ATOM 15	OG	SER A	2122.628	5.441	-2.980	1.00	0.00	O
ATOM 16	H	SER A	2122.055	8.214	-1.500	1.00	0.00	H
ATOM 17	HA	SER A	2120.333	6.322	-2.695	1.00	0.00	H
ATOM 18	1HB	SER A	2122.846	6.217	-1.107	1.00	0.00	H
ATOM 19	2HB	SER A	2121.896	4.735	-1.211	1.00	0.00	H
ATOM 20	HG	SER A	2122.628	6.259	-3.482	1.00	0.00	H
ATOM 21	N	SER A	3118.997	5.160	-0.902	1.00	0.00	N
ATOM 22	CA	SER A	3118.042	4.685	0.092	1.00	0.00	C
ATOM 23	C	SER A	3118.645	3.564	0.933	1.00	0.00	C
ATOM 24	O	SER A	3118.658	2.404	0.523	1.00	0.00	O
ATOM 25	CB	SER A	3116.764	4.194	-0.591	1.00	0.00	C
ATOM 26	OG	SER A	3117.063	3.463	-1.768	1.00	0.00	O
ATOM 27	H	SER A	3118.986	4.769	-1.801	1.00	0.00	H
ATOM 28	HA	SER A	3117.798	5.513	0.739	1.00	0.00	H
ATOM 29	1HB	SER A	3116.220	3.553	0.087	1.00	0.00	H
ATOM 30	2HB	SER A	3116.152	5.044	-0.854	1.00	0.00	H
ATOM 31	HG	SER A	3117.138	4.068	-2.510	1.00	0.00	H

ATOM32	N	GLY A	4119.143	3.920	2.114	1.00	0.00	N
ATOM33	CA	GLY A	4119.741	2.933	2.993	1.00	0.00	C
ATOM34	C	GLY A	4119.727	3.367	4.446	1.00	0.00	C
ATOM35	O	GLY A	4118.924	4.213	4.840	1.00	0.00	O
ATOM36	H	GLY A	4119.105	4.860	2.388	1.00	0.00	H
ATOM37	1HA	GLY A	4119.195	2.005	2.901	1.00	0.00	H
ATOM38	2HA	GLY A	4120.764	2.767	2.689	1.00	0.00	H
ATOM39	N	SER A	5120.616	2.785	5.244	1.00	0.00	N
ATOM40	CA	SER A	5120.703	3.116	6.662	1.00	0.00	C
ATOM41	C	SER A	5122.050	3.754	6.990	1.00	0.00	C
ATOM42	O	SER A	5122.125	4.697	7.777	1.00	0.00	O
ATOM43	CB	SER A	5120.499	1.861	7.513	1.00	0.00	C
ATOM44	OG	SER A	5119.829	2.169	8.723	1.00	0.00	O
ATOM45	H	SER A	5121.230	2.118	4.870	1.00	0.00	H
ATOM46	HA	SER A	5119.919	3.824	6.886	1.00	0.00	H
ATOM47	1HB	SER A	5119.907	1.147	6.961	1.00	0.00	H
ATOM48	2HB	SER A	5121.461	1.428	7.747	1.00	0.00	H
ATOM49	HG	SER A	5120.475	2.376	9.402	1.00	0.00	H
ATOM50	N	SER A	6123.109	3.233	6.381	1.00	0.00	N
ATOM51	CA	SER A	6124.454	3.751	6.607	1.00	0.00	C
ATOM52	C	SER A	6124.821	4.789	5.552	1.00	0.00	C
ATOM53	O	SER A	6124.732	4.528	4.353	1.00	0.00	O
ATOM54	CB	SER A	6125.472	2.611	6.594	1.00	0.00	C
ATOM55	OG	SER A	6126.514	2.846	7.526	1.00	0.00	O
ATOM56	H	SER A	6122.985	2.481	5.763	1.00	0.00	H
ATOM57	HA	SER A	6124.467	4.223	7.579	1.00	0.00	H
ATOM58	1HB	SER A	6124.978	1.686	6.853	1.00	0.00	H
ATOM59	2HB	SER A	6125.901	2.525	5.606	1.00	0.00	H
ATOM60	HG	SER A	6126.892	2.007	7.803	1.00	0.00	H
ATOM61	N	GLY A	7125.235	5.968	6.007	1.00	0.00	N
ATOM62	CA	GLY A	7125.610	7.027	5.088	1.00	0.00	C

ATOM63	C	GLY A	7127.112	7.214	5.001	1.00	0.00	C
ATOM64	O	GLY A	7127.869	6.243	5.033	1.00	0.00	O
ATOM65	H	GLY A	7125.286	6.119	6.974	1.00	0.00	H
ATOM66	1HA	GLY A	7125.230	6.788	4.107	1.00	0.00	H
ATOM67	2HA	GLY A	7125.161	7.951	5.421	1.00	0.00	H
ATOM68	N	LEU A	8127.545	8.467	4.889	1.00	0.00	N
ATOM69	CA	LEU A	8128.966	8.780	4.795	1.00	0.00	C
ATOM70	C	LEU A	8129.559	8.221	3.505	1.00	0.00	C
ATOM71	O	LEU A	8130.682	7.717	3.493	1.00	0.00	O
ATOM72	CB	LEU A	8129.719	8.220	6.004	1.00	0.00	C
ATOM73	CG	LEU A	8129.030	8.435	7.352	1.00	0.00	C
ATOM74	CD1	LEU A	8129.288	7.256	8.279	1.00	0.00	C
ATOM75	CD2	LEU A	8129.506	9.731	7.991	1.00	0.00	C
ATOM76	H	LEU A	8126.893	9.197	4.867	1.00	0.00	H
ATOM77	HA	LEU A	8129.068	9.855	4.786	1.00	0.00	H
ATOM78	1HB	LEU A	8129.853	7.157	5.856	1.00	0.00	H
ATOM79	2HB	LEU A	8130.692	8.685	6.043	1.00	0.00	H
ATOM80	HG	LEU A	8127.964	8.510	7.196	1.00	0.00	H
ATOM81	1HD1	LEU A	8129.004	7.522	9.286	1.00	0.00	H
ATOM82	2HD1	LEU A	8130.337	7.002	8.254	1.00	0.00	H
ATOM83	3HD1	LEU A	8128.704	6.408	7.952	1.00	0.00	H
ATOM84	1HD2	LEU A	8130.301	9.516	8.691	1.00	0.00	H
ATOM85	2HD2	LEU A	8128.684	10.199	8.512	1.00	0.00	H
ATOM86	3HD2	LEU A	8129.872	10.397	7.224	1.00	0.00	H
ATOM87	N	ALAA	9128.795	8.314	2.423	1.00	0.00	N
ATOM88	CA	ALAA	9129.241	7.818	1.128	1.00	0.00	C
ATOM89	C	ALAA	9129.592	8.968	0.192	1.00	0.00	C
ATOM90	O	ALAA	9128.799	9.890	0.000	1.00	0.00	O
ATOM91	CB	ALAA	9128.171	6.934	0.504	1.00	0.00	C
ATOM92	H	ALAA	9127.908	8.725	2.497	1.00	0.00	H
ATOM93	HA	ALAA	9130.123	7.216	1.289	1.00	0.00	H

ATOM94 1HB ALA A 9127.782 6.258 1.251 1.00 0.00 H
 ATOM95 2HB ALA A 9128.602 6.365 -0.308 1.00 0.00 H
 ATOM96 3HB ALA A 9127.369 7.552 0.126 1.00 0.00 H
 ATOM97 N MET A 10130.785 8.908 -0.389 1.00 0.00 N
 ATOM98 CA MET A 10131.242 9.945 -1.306 1.00 0.00 C
 ATOM99 C MET A 10131.920 9.331 -2.528 1.00 0.00 C
 ATOM 100 O MET A 10133.135 9.442 -2.697 1.00 0.00 O
 ATOM 101 CB MET A 10132.206 10.896 -0.594 1.00 0.00 C
 ATOM 102 CG MET A 10131.568 11.663 0.553 1.00 0.00 C
 ATOM 103 SD MET A 10132.377 13.245 0.863 1.00 0.00 S
 ATOM 104 CE MET A 10132.247 14.013 -0.751 1.00 0.00 C
 ATOM 105 H MET A 10131.373 8.148 -0.197 1.00 0.00 H
 ATOM 106 HA MET A 10130.376 10.503 -1.632 1.00 0.00 H
 ATOM 107 1HB MET A 10133.031 10.321 -0.200 1.00 0.00 H
 ATOM 108 2HB MET A 10132.585 11.609 -1.310 1.00 0.00 H
 ATOM 109 1HG MET A 10130.531 11.846 0.314 1.00 0.00 H
 ATOM 110 2HG MET A 10131.629 11.062 1.448 1.00 0.00 H
 ATOM 111 1HE MET A 10133.228 14.073 -1.200 1.00 0.00 H
 ATOM 112 2HE MET A 10131.839 15.007 -0.644 1.00 0.00 H
 ATOM 113 3HE MET A 10131.598 13.422 -1.380 1.00 0.00 H
 ATOM 114 N PRO A 11131.139 8.673 -3.402 1.00 0.00 N
 ATOM 115 CA PRO A 11131.671 8.043 -4.613 1.00 0.00 C
 ATOM 116 C PRO A 11132.451 9.024 -5.486 1.00 0.00 C
 ATOM 117 O PRO A 11133.544 8.709 -5.957 1.00 0.00 O
 ATOM 118 CB PRO A 11130.423 7.547 -5.350 1.00 0.00 C
 ATOM 119 CG PRO A 11129.365 7.447 -4.304 1.00 0.00 C
 ATOM 120 CD PRO A 11129.682 8.497 -3.277 1.00 0.00 C
 ATOM 121 HA PRO A 11132.304 7.202 -4.372 1.00 0.00 H
 ATOM 122 1HB PRO A 11130.152 8.253 -6.120 1.00 0.00 H
 ATOM 123 2HB PRO A 11130.626 6.585 -5.795 1.00 0.00 H
 ATOM 124 1HG PRO A 11128.400 7.638 -4.744 1.00 0.00 H

ATOM	125	2HG	PRO A	11129.387	6.466	-3.855	1.00	0.00	H
ATOM	126	1HD	PRO A	11129.162	9.416	-3.504	1.00	0.00	H
ATOM	127	2HD	PRO A	11129.421	8.149	-2.288	1.00	0.00	H
ATOM	128	N	PRO A	12131.907	10.235	-5.713	1.00	0.00	N
ATOM	129	CA	PRO A	12132.573	11.253	-6.531	1.00	0.00	C
ATOM	130	C	PRO A	12133.937	11.637	-5.966	1.00	0.00	C
ATOM	131	O	PRO A	12134.781	12.188	-6.673	1.00	0.00	O
ATOM	132	CB	PRO A	12131.618	12.453	-6.477	1.00	0.00	C
ATOM	133	CG	PRO A	12130.301	11.882	-6.078	1.00	0.00	C
ATOM	134	CD	PRO A	12130.613	10.712	-5.191	1.00	0.00	C
ATOM	135	HA	PRO A	12132.688	10.926	-7.553	1.00	0.00	H
ATOM	136	1HB	PRO A	12131.975	13.167	-5.750	1.00	0.00	H
ATOM	137	2HB	PRO A	12131.566	12.918	-7.451	1.00	0.00	H
ATOM	138	1HG	PRO A	12129.729	12.621	-5.537	1.00	0.00	H
ATOM	139	2HG	PRO A	12129.761	11.555	-6.954	1.00	0.00	H
ATOM	140	1HD	PRO A	12130.705	11.030	-4.163	1.00	0.00	H
ATOM	141	2HD	PRO A	12129.854	9.952	-5.287	1.00	0.00	H
ATOM	142	N	GLY A	13134.145	11.341	-4.687	1.00	0.00	N
ATOM	143	CA	GLY A	13135.408	11.661	-4.048	1.00	0.00	C
ATOM	144	C	GLY A	13136.522	10.720	-4.461	1.00	0.00	C
ATOM	145	O	GLY A	13137.189	10.944	-5.472	1.00	0.00	O
ATOM	146	H	GLY A	13133.435	10.900	-4.171	1.00	0.00	H
ATOM	147	1HA	GLY A	13135.687	12.670	-4.313	1.00	0.00	H
ATOM	148	2HA	GLY A	13135.282	11.603	-2.977	1.00	0.00	H
ATOM	149	N	ASNA	14136.723	9.665	-3.678	1.00	0.00	N
ATOM	150	CA	ASNA	14137.765	8.687	-3.969	1.00	0.00	C
ATOM	151	C	ASNA	14137.162	7.396	-4.514	1.00	0.00	C
ATOM	152	O	ASNA	14137.556	6.914	-5.575	1.00	0.00	O
ATOM	153	CB	ASNA	14138.580	8.389	-2.709	1.00	0.00	C
ATOM	154	CG	ASNA	14139.257	9.626	-2.152	1.00	0.00	C
ATOM	155	OD1	ASNA	14140.304	10.048	-2.643	1.00	0.00	O

ATOM	156	ND2	ASN A	14138.660	10.215	-1.122	1.00	0.00	N
ATOM	157	H	ASN A	14136.159	9.542	-2.887	1.00	0.00	H
ATOM	158	HA	ASN A	14138.418	9.109	-4.718	1.00	0.00	H
ATOM	159	1HB	ASN A	14137.925	7.988	-1.950	1.00	0.00	H
ATOM	160	2HB	ASN A	14139.341	7.660	-2.944	1.00	0.00	H
ATOM	161	1HD2	ASN A	14137.829	9.823	-0.784	1.00	0.00	H
ATOM	162	2HD2	ASN A	14139.076	11.018	-0.744	1.00	0.00	H
ATOM	163	N	SER A	15136.202	6.842	-3.779	1.00	0.00	N
ATOM	164	CA	SER A	15135.544	5.607	-4.189	1.00	0.00	C
ATOM	165	C	SER A	15134.436	5.233	-3.208	1.00	0.00	C
ATOM	166	O	SER A	15133.344	4.832	-3.612	1.00	0.00	O
ATOM	167	CB	SER A	15136.561	4.468	-4.286	1.00	0.00	C
ATOM	168	OG	SER A	15137.099	4.375	-5.592	1.00	0.00	O
ATOM	169	H	SER A	15135.930	7.274	-2.943	1.00	0.00	H
ATOM	170	HA	SER A	15135.106	5.770	-5.163	1.00	0.00	H
ATOM	171	1HB	SER A	15137.366	4.649	-3.590	1.00	0.00	H
ATOM	172	2HB	SER A	15136.076	3.535	-4.041	1.00	0.00	H
ATOM	173	HG	SER A	15136.766	3.582	-6.020	1.00	0.00	H
ATOM	174	N	HIS A	16134.726	5.365	-1.919	1.00	0.00	N
ATOM	175	CA	HIS A	16133.756	5.041	-0.879	1.00	0.00	C
ATOM	176	C	HIS A	16134.196	5.603	0.468	1.00	0.00	C
ATOM	177	O	HIS A	16133.479	6.389	1.089	1.00	0.00	O
ATOM	178	CB	HIS A	16133.574	3.525	-0.778	1.00	0.00	C
ATOM	179	CG	HIS A	16132.466	2.998	-1.636	1.00	0.00	C
ATOM	180	ND1	HIS A	16131.131	3.188	-1.343	1.00	0.00	N
ATOM	181	CD2	HIS A	16132.499	2.283	-2.786	1.00	0.00	C
ATOM	182	CE1	HIS A	16130.392	2.611	-2.275	1.00	0.00	C
ATOM	183	NE2	HIS A	16131.198	2.057	-3.162	1.00	0.00	N
ATOM	184	H	HIS A	16135.614	5.688	-1.660	1.00	0.00	H
ATOM	185	HA	HIS A	16132.814	5.491	-1.153	1.00	0.00	H
ATOM	186	1HB	HIS A	16134.489	3.038	-1.081	1.00	0.00	H

ATOM	187	2HB	HIS A	16133.355	3.264	0.247	1.00	0.00	H
ATOM	188	HD1	HIS A	16130.779	3.672	-0.567	1.00	0.00	H
ATOM	189	HD2	HIS A	16133.384	1.952	-3.310	1.00	0.00	H
ATOM	190	HE1	HIS A	16129.313	2.598	-2.306	1.00	0.00	H
ATOM	191	HE2	HIS A	16130.911	1.498	-3.913	1.00	0.00	H
ATOM	192	N	GLY A	17135.381	5.198	0.914	1.00	0.00	N
ATOM	193	CA	GLY A	17135.896	5.673	2.185	1.00	0.00	C
ATOM	194	C	GLY A	17137.255	5.085	2.515	1.00	0.00	C
ATOM	195	O	GLY A	17137.399	4.345	3.488	1.00	0.00	O
ATOM	196	H	GLY A	17135.909	4.572	0.377	1.00	0.00	H
ATOM	197	1HA	GLY A	17135.981	6.748	2.148	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.201	5.403	2.967	1.00	0.00	H
ATOM	199	N	LEU A	18138.253	5.417	1.703	1.00	0.00	N
ATOM	200	CA	LEU A	18139.607	4.918	1.913	1.00	0.00	C
ATOM	201	C	LEU A	18140.527	6.030	2.407	1.00	0.00	C
ATOM	202	O	LEU A	18140.851	6.956	1.663	1.00	0.00	O
ATOM	203	CB	LEU A	18140.160	4.320	0.618	1.00	0.00	C
ATOM	204	CG	LEU A	18139.326	3.186	0.021	1.00	0.00	C
ATOM	205	CD1	LEU A	18139.476	3.153	-1.493	1.00	0.00	C
ATOM	206	CD2	LEU A	18139.730	1.851	0.628	1.00	0.00	C
ATOM	207	H	LEU A	18138.075	6.012	0.944	1.00	0.00	H
ATOM	208	HA	LEU A	18139.562	4.144	2.665	1.00	0.00	H
ATOM	209	1HB	LEU A	18140.234	5.111	-0.115	1.00	0.00	H
ATOM	210	2HB	LEU A	18141.151	3.942	0.815	1.00	0.00	H
ATOM	211	HG	LEU A	18138.283	3.356	0.248	1.00	0.00	H
ATOM	212	1HD1	LEU A	18139.372	2.136	-1.842	1.00	0.00	H
ATOM	213	2HD1	LEU A	18140.451	3.528	-1.766	1.00	0.00	H
ATOM	214	3HD1	LEU A	18138.713	3.768	-1.944	1.00	0.00	H
ATOM	215	1HD2	LEU A	18140.757	1.903	0.959	1.00	0.00	H
ATOM	216	2HD2	LEU A	18139.629	1.073	-0.113	1.00	0.00	H
ATOM	217	3HD2	LEU A	18139.092	1.630	1.471	1.00	0.00	H

ATOM	218	N	GLU A	19140.945	5.931	3.664	1.00	0.00	N
ATOM	219	CA	GLU A	19141.830	6.927	4.257	1.00	0.00	C
ATOM	220	C	GLU A	19142.859	6.267	5.168	1.00	0.00	C
ATOM	221	O	GLU A	19142.811	5.059	5.403	1.00	0.00	O
ATOM	222	CB	GLU A	19141.017	7.954	5.047	1.00	0.00	C
ATOM	223	CG	GLU A	19140.018	7.331	6.010	1.00	0.00	C
ATOM	224	CD	GLU A	19138.580	7.626	5.632	1.00	0.00	C
ATOM	225	OE1	GLU A	19138.293	8.777	5.240	1.00	0.00	O
ATOM	226	OE2	GLU A	19137.741	6.705	5.727	1.00	0.00	O
ATOM	227	H	GLU A	19140.653	5.168	4.207	1.00	0.00	H
ATOM	228	HA	GLU A	19142.347	7.431	3.454	1.00	0.00	H
ATOM	229	1HB	GLU A	19141.696	8.573	5.617	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.474	8.579	4.353	1.00	0.00	H
ATOM	231	1HG	GLU A	19140.161	6.261	6.013	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.202	7.721	7.000	1.00	0.00	H
ATOM	233	N	VAL A	20143.791	7.066	5.679	1.00	0.00	N
ATOM	234	CA	VAL A	20144.831	6.559	6.564	1.00	0.00	C
ATOM	235	C	VAL A	20144.232	5.988	7.845	1.00	0.00	C
ATOM	236	O	VAL A	20143.373	6.610	8.471	1.00	0.00	O
ATOM	237	CB	VAL A	20145.845	7.660	6.930	1.00	0.00	C
ATOM	238	CG1	VAL A	20147.003	7.079	7.729	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.352	8.359	5.677	1.00	0.00	C
ATOM	240	H	VAL A	20143.776	8.020	5.455	1.00	0.00	H
ATOM	241	HA	VAL A	20145.358	5.773	6.043	1.00	0.00	H
ATOM	242	HB	VAL A	20145.345	8.392	7.547	1.00	0.00	H
ATOM	243	1HG1	VAL A	20147.813	7.792	7.760	1.00	0.00	H
ATOM	244	2HG1	VAL A	20147.342	6.167	7.260	1.00	0.00	H
ATOM	245	3HG1	VAL A	20146.674	6.864	8.735	1.00	0.00	H
ATOM	246	1HG2	VAL A	20146.407	9.423	5.856	1.00	0.00	H
ATOM	247	2HG2	VAL A	20145.676	8.167	4.858	1.00	0.00	H
ATOM	248	3HG2	VAL A	20147.335	7.985	5.429	1.00	0.00	H

ATOM	249	N	GLY A	21144.691	4.802	8.230	1.00	0.00	N
ATOM	250	CA	GLY A	21144.189	4.168	9.435	1.00	0.00	C
ATOM	251	C	GLY A	21143.139	3.114	9.141	1.00	0.00	C
ATOM	252	O	GLY A	21142.996	2.145	9.887	1.00	0.00	O
ATOM	253	H	GLY A	21145.376	4.354	7.691	1.00	0.00	H
ATOM	254	1HA	GLY A	21145.013	3.703	9.954	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.756	4.923	10.072	1.00	0.00	H
ATOM	256	N	SER A	22142.400	3.304	8.051	1.00	0.00	N
ATOM	257	CA	SER A	22141.358	2.363	7.661	1.00	0.00	C
ATOM	258	C	SER A	22141.934	1.233	6.815	1.00	0.00	C
ATOM	259	O	SER A	22142.916	1.420	6.095	1.00	0.00	O
ATOM	260	CB	SER A	22140.255	3.084	6.886	1.00	0.00	C
ATOM	261	OG	SER A	22139.291	3.639	7.764	1.00	0.00	O
ATOM	262	H	SER A	22142.561	4.097	7.498	1.00	0.00	H
ATOM	263	HA	SER A	22140.936	1.943	8.563	1.00	0.00	H
ATOM	264	1HB	SER A	22140.690	3.882	6.302	1.00	0.00	H
ATOM	265	2HB	SER A	22139.763	2.384	6.227	1.00	0.00	H
ATOM	266	HG	SER A	22139.736	4.075	8.494	1.00	0.00	H
ATOM	267	N	LEU A	23141.319	0.059	6.906	1.00	0.00	N
ATOM	268	CA	LEU A	23141.771	-1.103	6.149	1.00	0.00	C
ATOM	269	C	LEU A	23141.219	-1.074	4.727	1.00	0.00	C
ATOM	270	O	LEU A	23140.087	-0.646	4.499	1.00	0.00	O
ATOM	271	CB	LEU A	23141.341	-2.394	6.849	1.00	0.00	C
ATOM	272	CG	LEU A	23142.012	-2.651	8.199	1.00	0.00	C
ATOM	273	CD1	LEU A	23141.094	-3.458	9.106	1.00	0.00	C
ATOM	274	CD2	LEU A	23143.339	-3.369	8.005	1.00	0.00	C
ATOM	275	H	LEU A	23140.542	-0.029	7.497	1.00	0.00	H
ATOM	276	HA	LEU A	23142.849	-1.070	6.104	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.273	-2.356	7.002	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.566	-3.224	6.197	1.00	0.00	H
ATOM	279	HG	LEU A	23142.211	-1.706	8.682	1.00	0.00	H

ATOM	280	1HD1	LEU A	23140.445	-4.074	8.503	1.00	0.00	H
ATOM	281	2HD1	LEU A	23140.499	-2.784	9.705	1.00	0.00	H
ATOM	282	3HD1	LEU A	23141.689	-4.085	9.753	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.169	-4.436	7.969	1.00	0.00	H
ATOM	284	2HD2	LEU A	23143.997	-3.138	8.830	1.00	0.00	H
ATOM	285	3HD2	LEU A	23143.792	-3.046	7.080	1.00	0.00	H
ATOM	286	N	ALAA	24142.025	-1.531	3.776	1.00	0.00	N
ATOM	287	CA	ALAA	24141.617	-1.558	2.376	1.00	0.00	C
ATOM	288	C	ALAA	24142.162	-2.794	1.669	1.00	0.00	C
ATOM	289	O	ALAA	24143.002	-3.511	2.211	1.00	0.00	O
ATOM	290	CB	ALAA	24142.082	-0.294	1.668	1.00	0.00	C
ATOM	291	H	ALAA	24142.916	-1.859	4.019	1.00	0.00	H
ATOM	292	HA	ALAA	24140.538	-1.584	2.345	1.00	0.00	H
ATOM	293	1HB	ALAA	24143.093	-0.432	1.314	1.00	0.00	H
ATOM	294	2HB	ALAA	24142.051	0.537	2.357	1.00	0.00	H
ATOM	295	3HB	ALAA	24141.432	-0.091	0.830	1.00	0.00	H
ATOM	296	N	GLU A	25141.678	-3.036	0.456	1.00	0.00	N
ATOM	297	CA	GLU A	25142.117	-4.186	-0.326	1.00	0.00	C
ATOM	298	C	GLU A	25142.455	-3.774	-1.756	1.00	0.00	C
ATOM	299	O	GLU A	25141.823	-2.884	-2.323	1.00	0.00	O
ATOM	300	CB	GLU A	25141.032	-5.265	-0.338	1.00	0.00	C
ATOM	301	CG	GLU A	25141.479	-6.569	-0.978	1.00	0.00	C
ATOM	302	CD	GLU A	25140.325	-7.520	-1.231	1.00	0.00	C
ATOM	303	OE1	GLU A	25140.422	-8.335	-2.172	1.00	0.00	O
ATOM	304	OE2	GLU A	25139.324	-7.450	-0.486	1.00	0.00	O
ATOM	305	H	GLU A	25141.010	-2.427	0.076	1.00	0.00	H
ATOM	306	HA	GLU A	25143.004	-4.585	0.140	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.736	-5.472	0.680	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.178	-4.896	-0.885	1.00	0.00	H
ATOM	309	1HG	GLU A	25141.955	-6.348	-1.921	1.00	0.00	H
ATOM	310	2HG	GLU A	25142.188	-7.053	-0.323	1.00	0.00	H

ATOM	311	N	VAL A	26143.459	-4.429	-2.333	1.00	0.00	N
ATOM	312	CA	VAL A	26143.882	-4.131	-3.695	1.00	0.00	C
ATOM	313	C	VAL A	26143.519	-5.267	-4.644	1.00	0.00	C
ATOM	314	O	VAL A	26143.657	-6.442	-4.305	1.00	0.00	O
ATOM	315	CB	VAL A	26145.400	-3.881	-3.770	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.791	-3.373	-5.149	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.833	-2.901	-2.690	1.00	0.00	C
ATOM	318	H	VAL A	26143.925	-5.129	-1.829	1.00	0.00	H
ATOM	319	HA	VAL A	26143.374	-3.233	-4.014	1.00	0.00	H
ATOM	320	HB	VAL A	26145.908	-4.819	-3.600	1.00	0.00	H
ATOM	321	1HG1	VAL A	26145.889	-2.297	-5.123	1.00	0.00	H
ATOM	322	2HG1	VAL A	26145.030	-3.648	-5.864	1.00	0.00	H
ATOM	323	3HG1	VAL A	26146.734	-3.812	-5.440	1.00	0.00	H
ATOM	324	1HG2	VAL A	26145.367	-3.169	-1.753	1.00	0.00	H
ATOM	325	2HG2	VAL A	26145.533	-1.902	-2.968	1.00	0.00	H
ATOM	326	3HG2	VAL A	26146.907	-2.938	-2.582	1.00	0.00	H
ATOM	327	N	LYS A	27143.052	-4.909	-5.837	1.00	0.00	N
ATOM	328	CA	LYS A	27142.669	-5.900	-6.836	1.00	0.00	C
ATOM	329	C	LYS A	27143.868	-6.308	-7.685	1.00	0.00	C
ATOM	330	O	LYS A	27144.189	-5.657	-8.680	1.00	0.00	O
ATOM	331	CB	LYS A	27141.557	-5.347	-7.731	1.00	0.00	C
ATOM	332	CG	LYS A	27140.454	-6.352	-8.020	1.00	0.00	C
ATOM	333	CD	LYS A	27139.652	-6.674	-6.770	1.00	0.00	C
ATOM	334	CE	LYS A	27138.931	-5.445	-6.239	1.00	0.00	C
ATOM	335	NZ	LYS A	27139.738	-4.727	-5.213	1.00	0.00	N
ATOM	336	H	LYS A	27142.964	-3.957	-6.049	1.00	0.00	H
ATOM	337	HA	LYS A	27142.299	-6.770	-6.315	1.00	0.00	H
ATOM	338	1HB	LYS A	27141.115	-4.489	-7.248	1.00	0.00	H
ATOM	339	2HB	LYS A	27141.988	-5.037	-8.672	1.00	0.00	H
ATOM	340	1HG	LYS A	27139.790	-5.939	-8.765	1.00	0.00	H
ATOM	341	2HG	LYS A	27140.898	-7.262	-8.397	1.00	0.00	H

ATOM	342	1HD	LYS A	27138.922	-7.433	-7.007	1.00	0.00	H
ATOM	343	2HD	LYS A	27140.324	-7.043	-6.008	1.00	0.00	H
ATOM	344	1HE	LYS A	27138.735	-4.775	-7.063	1.00	0.00	H
ATOM	345	2HE	LYS A	27137.996	-5.755	-5.797	1.00	0.00	H
ATOM	346	1HZ	LYS A	27140.748	-4.947	-5.335	1.00	0.00	H
ATOM	347	2HZ	LYS A	27139.443	-5.018	-4.260	1.00	0.00	H
ATOM	348	3HZ	LYS A	27139.603	-3.701	-5.308	1.00	0.00	H
ATOM	349	N	GLU A	28144.529	-7.390	-7.286	1.00	0.00	N
ATOM	350	CA	GLU A	28145.694	-7.886	-8.010	1.00	0.00	C
ATOM	351	C	GLU A	28145.709	-9.411	-8.036	1.00	0.00	C
ATOM	352	O	GLU A	28144.797	-10.059	-7.525	1.00	0.00	O
ATOM	353	CB	GLU A	28146.980	-7.360	-7.368	1.00	0.00	C
ATOM	354	CG	GLU A	28147.981	-6.812	-8.372	1.00	0.00	C
ATOM	355	CD	GLU A	28149.350	-6.580	-7.762	1.00	0.00	C
ATOM	356	OE1	GLU A	28149.538	-5.534	-7.106	1.00	0.00	O
ATOM	357	OE2	GLU A	28150.233	-7.446	-7.941	1.00	0.00	O
ATOM	358	H	GLU A	28144.225	-7.867	-6.485	1.00	0.00	H
ATOM	359	HA	GLU A	28145.633	-7.520	-9.024	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.727	-6.570	-6.677	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.453	-8.164	-6.824	1.00	0.00	H
ATOM	362	1HG	GLU A	28148.080	-7.517	-9.183	1.00	0.00	H
ATOM	363	2HG	GLU A	28147.609	-5.873	-8.755	1.00	0.00	H
ATOM	364	N	ASN A	29146.752	-9.977	-8.635	1.00	0.00	N
ATOM	365	CA	ASN A	29146.886	-11.426	-8.726	1.00	0.00	C
ATOM	366	C	ASN A	29146.958	-12.052	-7.335	1.00	0.00	C
ATOM	367	O	ASN A	29146.123	-12.880	-6.974	1.00	0.00	O
ATOM	368	CB	ASN A	29148.133	-11.794	-9.533	1.00	0.00	C
ATOM	369	CG	ASN A	29147.812	-12.105	-10.982	1.00	0.00	C
ATOM	370	OD1	ASN A	29147.758	-13.268	-11.382	1.00	0.00	O
ATOM	371	ND2	ASN A	29147.598	-11.063	-11.777	1.00	0.00	N
ATOM	372	H	ASN A	29147.448	-9.407	-9.023	1.00	0.00	H

ATOM 373 HA ASN A 29146.013 -11.808 -9.235 1.00 0.00 H
 ATOM 374 1HB ASN A 29148.828 -10.969 -9.507 1.00 0.00 H
 ATOM 375 2HB ASN A 29148.597 -12.664 -9.092 1.00 0.00 H
 ATOM 376 1HD2 ASN A 29147.658 -10.166 -11.389 1.00 0.00 H
 ATOM 377 2HD2 ASN A 29147.388 -11.235 -12.719 1.00 0.00 H
 ATOM 378 N PRO A 30147.964 -11.661 -6.533 1.00 0.00 N
 ATOM 379 CA PRO A 30148.142 -12.186 -5.177 1.00 0.00 C
 ATOM 380 C PRO A 30147.167 -11.559 -4.180 1.00 0.00 C
 ATOM 381 O PRO A 30147.291 -10.383 -3.839 1.00 0.00 O
 ATOM 382 CB PRO A 30149.577 -11.785 -4.840 1.00 0.00 C
 ATOM 383 CG PRO A 30149.809 -10.537 -5.617 1.00 0.00 C
 ATOM 384 CD PRO A 30149.006 -10.676 -6.885 1.00 0.00 C
 ATOM 385 HA PRO A 30148.048 -13.261 -5.151 1.00 0.00 H
 ATOM 386 1HB PRO A 30149.666 -11.614 -3.777 1.00 0.00 H
 ATOM 387 2HB PRO A 30150.254 -12.571 -5.143 1.00 0.00 H
 ATOM 388 1HG PRO A 30149.468 -9.684 -5.050 1.00 0.00 H
 ATOM 389 2HG PRO A 30150.859 -10.438 -5.849 1.00 0.00 H
 ATOM 390 1HD PRO A 30148.564 -9.730 -7.156 1.00 0.00 H
 ATOM 391 2HD PRO A 30149.628 -11.045 -7.685 1.00 0.00 H
 ATOM 392 N PRO A 31146.181 -12.338 -3.697 1.00 0.00 N
 ATOM 393 CA PRO A 31145.190 -11.843 -2.736 1.00 0.00 C
 ATOM 394 C PRO A 31145.794 -11.586 -1.360 1.00 0.00 C
 ATOM 395 O PRO A 31146.067 -12.521 -0.606 1.00 0.00 O
 ATOM 396 CB PRO A 31144.165 -12.976 -2.667 1.00 0.00 C
 ATOM 397 CG PRO A 31144.925 -14.198 -3.043 1.00 0.00 C
 ATOM 398 CD PRO A 31145.955 -13.754 -4.044 1.00 0.00 C
 ATOM 399 HA PRO A 31144.712 -10.941 -3.091 1.00 0.00 H
 ATOM 400 1HB PRO A 31143.770 -13.047 -1.663 1.00 0.00 H
 ATOM 401 2HB PRO A 31143.361 -12.782 -3.362 1.00 0.00 H
 ATOM 402 1HG PRO A 31145.408 -14.615 -2.170 1.00 0.00 H
 ATOM 403 2HG PRO A 31144.260 -14.924 -3.487 1.00 0.00 H

ATOM	404	1HD	PRO	A	31146.863	-14.327	-3.934	1.00	0.00	H
ATOM	405	2HD	PRO	A	31145.569	-13.846	-5.048	1.00	0.00	H
ATOM	406	N	PHE	A	32146.001	-10.313	-1.038	1.00	0.00	N
ATOM	407	CA	PHE	A	32146.574	-9.933	0.248	1.00	0.00	C
ATOM	408	C	PHE	A	32145.715	-8.877	0.935	1.00	0.00	C
ATOM	409	O	PHE	A	32144.802	-8.315	0.330	1.00	0.00	O
ATOM	410	CB	PHE	A	32147.998	-9.406	0.061	1.00	0.00	C
ATOM	411	CG	PHE	A	32148.118	-8.373	-1.023	1.00	0.00	C
ATOM	412	CD1	PHE	A	32148.820	-8.648	-2.186	1.00	0.00	C
ATOM	413	CD2	PHE	A	32147.530	-7.127	-0.877	1.00	0.00	C
ATOM	414	CE1	PHE	A	32148.933	-7.700	-3.184	1.00	0.00	C
ATOM	415	CE2	PHE	A	32147.641	-6.173	-1.873	1.00	0.00	C
ATOM	416	CZ	PHE	A	32148.342	-6.460	-3.028	1.00	0.00	C
ATOM	417	H	PHE	A	32145.764	-9.613	-1.680	1.00	0.00	H
ATOM	418	HA	PHE	A	32146.606	-10.815	0.870	1.00	0.00	H
ATOM	419	1HB	PHE	A	32148.333	-8.959	0.985	1.00	0.00	H
ATOM	420	2HB	PHE	A	32148.649	-10.231	-0.190	1.00	0.00	H
ATOM	421	HD1	PHE	A	32149.281	-9.617	-2.308	1.00	0.00	H
ATOM	422	HD2	PHE	A	32146.982	-6.901	0.025	1.00	0.00	H
ATOM	423	HE1	PHE	A	32149.483	-7.927	-4.086	1.00	0.00	H
ATOM	424	HE2	PHE	A	32147.178	-5.206	-1.748	1.00	0.00	H
ATOM	425	HZ	PHE	A	32148.429	-5.718	-3.807	1.00	0.00	H
ATOM	426	N	TYR	A	33146.012	-8.612	2.203	1.00	0.00	N
ATOM	427	CA	TYR	A	33145.266	-7.623	2.973	1.00	0.00	C
ATOM	428	C	TYR	A	33146.213	-6.681	3.708	1.00	0.00	C
ATOM	429	O	TYR	A	33147.222	-7.110	4.269	1.00	0.00	O
ATOM	430	CB	TYR	A	33144.340	-8.318	3.973	1.00	0.00	C
ATOM	431	CG	TYR	A	33143.079	-8.869	3.348	1.00	0.00	C
ATOM	432	CD1	TYR	A	33142.709	-10.196	3.538	1.00	0.00	C
ATOM	433	CD2	TYR	A	33142.257	-8.064	2.568	1.00	0.00	C
ATOM	434	CE1	TYR	A	33141.557	-10.703	2.969	1.00	0.00	C

ATOM	435	CE2 TYR A	33141.103	-8.566	1.996	1.00	0.00	C
ATOM	436	CZ TYR A	33140.758	-9.885	2.199	1.00	0.00	C
ATOM	437	OH TYR A	33139.610	-10.387	1.630	1.00	0.00	O
ATOM	438	H TYR A	33146.751	-9.094	2.631	1.00	0.00	H
ATOM	439	HA TYR A	33144.669	-7.047	2.282	1.00	0.00	H
ATOM	440	1HB TYR A	33144.869	-9.139	4.432	1.00	0.00	H
ATOM	441	2HB TYR A	33144.051	-7.610	4.736	1.00	0.00	H
ATOM	442	HD1 TYR A	33143.337	-10.833	4.141	1.00	0.00	H
ATOM	443	HD2 TYR A	33142.531	-7.032	2.411	1.00	0.00	H
ATOM	444	HE1 TYR A	33141.286	-11.737	3.127	1.00	0.00	H
ATOM	445	HE2 TYR A	33140.477	-7.924	1.393	1.00	0.00	H
ATOM	446	HH TYR A	33139.802	-11.228	1.209	1.00	0.00	H
ATOM	447	N GLY A	34145.881	-5.394	3.704	1.00	0.00	N
ATOM	448	CA GLY A	34146.711	-4.411	4.374	1.00	0.00	C
ATOM	449	C GLY A	34145.948	-3.149	4.725	1.00	0.00	C
ATOM	450	O GLY A	34144.896	-2.873	4.150	1.00	0.00	O
ATOM	451	H GLY A	34145.066	-5.109	3.241	1.00	0.00	H
ATOM	452	1HA GLY A	34147.103	-4.846	5.282	1.00	0.00	H
ATOM	453	2HA GLY A	34147.537	-4.151	3.727	1.00	0.00	H
ATOM	454	N VAL A	35146.480	-2.382	5.671	1.00	0.00	N
ATOM	455	CA VAL A	35145.842	-1.143	6.098	1.00	0.00	C
ATOM	456	C VAL A	35146.536	0.070	5.486	1.00	0.00	C
ATOM	457	O VAL A	35147.743	0.052	5.247	1.00	0.00	O
ATOM	458	CB VAL A	35145.848	-1.009	7.635	1.00	0.00	C
ATOM	459	CG1 VAL A	35147.273	-0.996	8.169	1.00	0.00	C
ATOM	460	CG2 VAL A	35145.095	0.240	8.067	1.00	0.00	C
ATOM	461	H VAL A	35147.322	-2.656	6.092	1.00	0.00	H
ATOM	462	HA VAL A	35144.816	-1.165	5.763	1.00	0.00	H
ATOM	463	HB VAL A	35145.342	-1.869	8.050	1.00	0.00	H
ATOM	464	1HG1 VAL A	35147.344	-0.295	8.987	1.00	0.00	H
ATOM	465	2HG1 VAL A	35147.950	-0.699	7.381	1.00	0.00	H

ATOM	466	3HG1	VAL A	35147.536	-1.984	8.516	1.00	0.00	H
ATOM	467	1HG2	VAL A	35145.576	1.113	7.652	1.00	0.00	H
ATOM	468	2HG2	VAL A	35145.096	0.307	9.145	1.00	0.00	H
ATOM	469	3HG2	VAL A	35144.076	0.188	7.712	1.00	0.00	H
ATOM	470	N	ILE A	36145.764	1.122	5.233	1.00	0.00	N
ATOM	471	CA	ILE A	36146.305	2.343	4.648	1.00	0.00	C
ATOM	472	C	ILE A	36147.257	3.039	5.615	1.00	0.00	C
ATOM	473	O	ILE A	36147.061	3.001	6.830	1.00	0.00	O
ATOM	474	CB	ILE A	36145.182	3.324	4.253	1.00	0.00	C
ATOM	475	CG1	ILE A	36144.129	2.611	3.400	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.758	4.516	3.505	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.990	3.510	2.971	1.00	0.00	C
ATOM	478	H	ILE A	36144.808	1.075	5.445	1.00	0.00	H
ATOM	479	HA	ILE A	36146.848	2.073	3.754	1.00	0.00	H
ATOM	480	HB	ILE A	36144.717	3.687	5.157	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.599	2.224	2.509	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.711	1.791	3.967	1.00	0.00	H
ATOM	483	1HG2	ILE A	36146.253	5.174	4.204	1.00	0.00	H
ATOM	484	2HG2	ILE A	36144.960	5.051	3.011	1.00	0.00	H
ATOM	485	3HG2	ILE A	36146.469	4.172	2.770	1.00	0.00	H
ATOM	486	1HD1	ILE A	36142.253	3.558	3.759	1.00	0.00	H
ATOM	487	2HD1	ILE A	36142.535	3.111	2.076	1.00	0.00	H
ATOM	488	3HD1	ILE A	36143.369	4.500	2.772	1.00	0.00	H
ATOM	489	N	ARG A	37148.287	3.674	5.067	1.00	0.00	N
ATOM	490	CA	ARG A	37149.271	4.379	5.882	1.00	0.00	C
ATOM	491	C	ARG A	37149.476	5.804	5.378	1.00	0.00	C
ATOM	492	O	ARG A	37149.174	6.769	6.080	1.00	0.00	O
ATOM	493	CB	ARG A	37150.604	3.626	5.872	1.00	0.00	C
ATOM	494	CG	ARG A	37150.463	2.137	6.139	1.00	0.00	C
ATOM	495	CD	ARG A	37149.863	1.870	7.511	1.00	0.00	C
ATOM	496	NE	ARG A	37150.865	1.945	8.571	1.00	0.00	N

ATOM	497	CZ	ARG A	37150.616	1.661	9.847	1.00	0.00	C
ATOM	498	NH1	ARG A	37149.401	1.284	10.226	1.00	0.00	N
ATOM	499	NH2	ARG A	37151.585	1.755	10.749	1.00	0.00	N
ATOM	500	H	ARG A	37148.389	3.668	4.093	1.00	0.00	H
ATOM	501	HA	ARG A	37148.897	4.418	6.893	1.00	0.00	H
ATOM	502	1HB	ARG A	37151.069	3.754	4.907	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.247	4.047	6.632	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.820	1.705	5.386	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.440	1.678	6.088	1.00	0.00	H
ATOM	506	1HD	ARG A	37149.095	2.605	7.702	1.00	0.00	H
ATOM	507	2HD	ARG A	37149.424	0.883	7.511	1.00	0.00	H
ATOM	508	HE	ARG A	37151.770	2.221	8.319	1.00	0.00	H
ATOM	509	1HH1	ARG A	37148.667	1.211	9.551	1.00	0.00	H
ATOM	510	2HH1	ARG A	37149.221	1.071	11.187	1.00	0.00	H
ATOM	511	1HH2	ARG A	37152.502	2.039	10.469	1.00	0.00	H
ATOM	512	2HH2	ARG A	37151.398	1.542	11.707	1.00	0.00	H
ATOM	513	N	TRP A	38149.989	5.929	4.158	1.00	0.00	N
ATOM	514	CA	TRP A	38150.233	7.238	3.563	1.00	0.00	C
ATOM	515	C	TRP A	38149.491	7.382	2.237	1.00	0.00	C
ATOM	516	O	TRP A	38149.514	6.481	1.399	1.00	0.00	O
ATOM	517	CB	TRP A	38151.735	7.456	3.349	1.00	0.00	C
ATOM	518	CG	TRP A	38152.054	8.673	2.533	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.277	9.938	2.997	1.00	0.00	C
ATOM	520	CD2	TRP A	38152.180	8.741	1.107	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.534	10.787	1.947	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.480	10.075	0.777	1.00	0.00	C
ATOM	523	CE3	TRP A	38152.068	7.801	0.079	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.669	10.492	-0.540	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.256	8.216	-1.226	1.00	0.00	C
ATOM	526	CH2	TRP A	38152.554	9.551	-1.526	1.00	0.00	C
ATOM	527	H	TRP A	38150.208	5.122	3.646	1.00	0.00	H

ATOM	528	HA	TRP A	38149.865	7.987	4.249	1.00	0.00	H
ATOM	529	1HB	TRP A	38152.215	7.565	4.310	1.00	0.00	H
ATOM	530	2HB	TRP A	38152.147	6.595	2.842	1.00	0.00	H
ATOM	531	HD1	TRP A	38152.251	10.216	4.039	1.00	0.00	H
ATOM	532	HE1	TRP A	38152.725	11.746	2.023	1.00	0.00	H
ATOM	533	HE3	TRP A	38151.838	6.769	0.289	1.00	0.00	H
ATOM	534	HZ2	TRP A	38152.896	11.518	-0.788	1.00	0.00	H
ATOM	535	HZ3	TRP A	38152.173	7.503	-2.034	1.00	0.00	H
ATOM	536	HH2	TRP A	38152.693	9.829	-2.560	1.00	0.00	H
ATOM	537	N	ILE A	39148.842	8.527	2.055	1.00	0.00	N
ATOM	538	CA	ILE A	39148.100	8.803	0.831	1.00	0.00	C
ATOM	539	C	ILE A	39148.544	10.127	0.223	1.00	0.00	C
ATOM	540	O	ILE A	39148.213	11.197	0.735	1.00	0.00	O
ATOM	541	CB	ILE A	39146.583	8.851	1.090	1.00	0.00	C
ATOM	542	CG1	ILE A	39146.137	7.619	1.880	1.00	0.00	C
ATOM	543	CG2	ILE A	39145.824	8.946	-0.225	1.00	0.00	C
ATOM	544	CD1	ILE A	39144.728	7.725	2.420	1.00	0.00	C
ATOM	545	H	ILE A	39148.868	9.207	2.760	1.00	0.00	H
ATOM	546	HA	ILE A	39148.302	8.007	0.129	1.00	0.00	H
ATOM	547	HB	ILE A	39146.366	9.737	1.667	1.00	0.00	H
ATOM	548	1HG1	ILE A	39146.182	6.752	1.239	1.00	0.00	H
ATOM	549	2HG1	ILE A	39146.804	7.476	2.717	1.00	0.00	H
ATOM	550	1HG2	ILE A	39146.045	8.080	-0.832	1.00	0.00	H
ATOM	551	2HG2	ILE A	39146.125	9.840	-0.752	1.00	0.00	H
ATOM	552	3HG2	ILE A	39144.763	8.986	-0.028	1.00	0.00	H
ATOM	553	1HD1	ILE A	39144.041	7.263	1.727	1.00	0.00	H
ATOM	554	2HD1	ILE A	39144.468	8.765	2.547	1.00	0.00	H
ATOM	555	3HD1	ILE A	39144.669	7.221	3.374	1.00	0.00	H
ATOM	556	N	GLY A	40149.303	10.051	-0.866	1.00	0.00	N
ATOM	557	CA	GLY A	40149.784	11.256	-1.513	1.00	0.00	C
ATOM	558	C	GLY A	40150.325	11.000	-2.905	1.00	0.00	C

ATOM	559	O	GLY A	40150.197	9.896	-3.437	1.00	0.00	O
ATOM	560	H	GLY A	40149.542	9.172	-1.228	1.00	0.00	H
ATOM	561	1HA	GLY A	40148.973	11.963	-1.580	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.569	11.684	-0.909	1.00	0.00	H
ATOM	563	N	GLN A	41150.931	12.024	-3.494	1.00	0.00	N
ATOM	564	CA	GLN A	41151.497	11.918	-4.833	1.00	0.00	C
ATOM	565	C	GLN A	41152.964	12.346	-4.832	1.00	0.00	C
ATOM	566	O	GLN A	41153.276	13.509	-4.574	1.00	0.00	O
ATOM	567	CB	GLN A	41150.698	12.783	-5.807	1.00	0.00	C
ATOM	568	CG	GLN A	41149.196	12.573	-5.716	1.00	0.00	C
ATOM	569	CD	GLN A	41148.417	13.867	-5.845	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.369	14.671	-4.914	1.00	0.00	O
ATOM	571	NE2	GLN A	41147.802	14.074	-7.002	1.00	0.00	N
ATOM	572	H	GLN A	41150.998	12.876	-3.016	1.00	0.00	H
ATOM	573	HA	GLN A	41151.430	10.886	-5.142	1.00	0.00	H
ATOM	574	1HB	GLN A	41150.906	13.822	-5.600	1.00	0.00	H
ATOM	575	2HB	GLN A	41151.013	12.556	-6.814	1.00	0.00	H
ATOM	576	1HG	GLN A	41148.889	11.906	-6.508	1.00	0.00	H
ATOM	577	2HG	GLN A	41148.965	12.125	-4.761	1.00	0.00	H
ATOM	578	1HE2	GLN A	41147.884	13.389	-7.698	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.291	14.902	-7.114	1.00	0.00	H
ATOM	580	N	PRO A	42153.889	11.412	-5.117	1.00	0.00	N
ATOM	581	CA	PRO A	42155.326	11.708	-5.142	1.00	0.00	C
ATOM	582	C	PRO A	42155.671	12.825	-6.122	1.00	0.00	C
ATOM	583	O	PRO A	42154.902	13.119	-7.038	1.00	0.00	O
ATOM	584	CB	PRO A	42155.961	10.387	-5.590	1.00	0.00	C
ATOM	585	CG	PRO A	42154.953	9.346	-5.249	1.00	0.00	C
ATOM	586	CD	PRO A	42153.614	10.000	-5.435	1.00	0.00	C
ATOM	587	HA	PRO A	42155.691	11.970	-4.160	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.152	10.420	-6.653	1.00	0.00	H
ATOM	589	2HB	PRO A	42156.886	10.230	-5.057	1.00	0.00	H

ATOM	590	1HG	PRO A	42155.054	8.501	-5.913	1.00	0.00	H
ATOM	591	2HG	PRO A	42155.078	9.034	-4.222	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.280	9.891	-6.457	1.00	0.00	H
ATOM	593	2HD	PRO A	42152.891	9.583	-4.751	1.00	0.00	H
ATOM	594	N	PRO A	43156.841	13.463	-5.943	1.00	0.00	N
ATOM	595	CA	PRO A	43157.286	14.551	-6.816	1.00	0.00	C
ATOM	596	C	PRO A	43157.707	14.053	-8.193	1.00	0.00	C
ATOM	597	O	PRO A	43158.879	13.762	-8.429	1.00	0.00	O
ATOM	598	CB	PRO A	43158.488	15.132	-6.072	1.00	0.00	C
ATOM	599	CG	PRO A	43159.013	14.001	-5.259	1.00	0.00	C
ATOM	600	CD	PRO A	43157.817	13.173	-4.876	1.00	0.00	C
ATOM	601	HA	PRO A	43156.525	15.310	-6.925	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.220	15.481	-6.786	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.167	15.952	-5.447	1.00	0.00	H
ATOM	604	1HG	PRO A	43159.702	13.414	-5.848	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.504	14.381	-4.375	1.00	0.00	H
ATOM	606	1HD	PRO A	43158.074	12.124	-4.864	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.438	13.479	-3.913	1.00	0.00	H
ATOM	608	N	GLY A	44156.742	13.956	-9.102	1.00	0.00	N
ATOM	609	CA	GLY A	44157.035	13.493	-10.444	1.00	0.00	C
ATOM	610	C	GLY A	44155.815	12.935	-11.146	1.00	0.00	C
ATOM	611	O	GLY A	44155.511	13.319	-12.275	1.00	0.00	O
ATOM	612	H	GLY A	44155.826	14.202	-8.859	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.422	14.318	-11.021	1.00	0.00	H
ATOM	614	2HA	GLY A	44157.789	12.721	-10.389	1.00	0.00	H
ATOM	615	N	LEU A	45155.112	12.028	-10.476	1.00	0.00	N
ATOM	616	CA	LEU A	45153.916	11.419	-11.047	1.00	0.00	C
ATOM	617	C	LEU A	45152.704	11.673	-10.162	1.00	0.00	C
ATOM	618	O	LEU A	45152.622	11.161	-9.045	1.00	0.00	O
ATOM	619	CB	LEU A	45154.123	9.914	-11.228	1.00	0.00	C
ATOM	620	CG	LEU A	45154.702	9.190	-10.012	1.00	0.00	C

ATOM	621	CD1	LEU	A	45154.398	7.699	-10.079	1.00	0.00	C
ATOM	622	CD2	LEU	A	45156.202	9.431	-9.913	1.00	0.00	C
ATOM	623	H	LEU	A	45155.402	11.763	-9.577	1.00	0.00	H
ATOM	624	HA	LEU	A	45153.744	11.868	-12.013	1.00	0.00	H
ATOM	625	1HB	LEU	A	45153.168	9.467	-11.467	1.00	0.00	H
ATOM	626	2HB	LEU	A	45154.792	9.761	-12.061	1.00	0.00	H
ATOM	627	HG	LEU	A	45154.240	9.583	-9.116	1.00	0.00	H
ATOM	628	1HD1	LEU	A	45153.895	7.394	-9.174	1.00	0.00	H
ATOM	629	2HD1	LEU	A	45155.321	7.147	-10.182	1.00	0.00	H
ATOM	630	3HD1	LEU	A	45153.763	7.498	-10.930	1.00	0.00	H
ATOM	631	1HD2	LEU	A	45156.405	10.107	-9.095	1.00	0.00	H
ATOM	632	2HD2	LEU	A	45156.558	9.867	-10.836	1.00	0.00	H
ATOM	633	3HD2	LEU	A	45156.709	8.493	-9.739	1.00	0.00	H
ATOM	634	N	ASN	A	46151.760	12.464	-10.662	1.00	0.00	N
ATOM	635	CA	ASN	A	46150.556	12.771	-9.903	1.00	0.00	C
ATOM	636	C	ASN	A	46149.628	11.563	-9.860	1.00	0.00	C
ATOM	637	O	ASN	A	46149.007	11.207	-10.861	1.00	0.00	O
ATOM	638	CB	ASN	A	46149.829	13.967	-10.521	1.00	0.00	C
ATOM	639	CG	ASN	A	46148.973	14.709	-9.514	1.00	0.00	C
ATOM	640	OD1	ASN	A	46147.746	14.622	-9.540	1.00	0.00	O
ATOM	641	ND2	ASN	A	46149.619	15.445	-8.617	1.00	0.00	N
ATOM	642	H	ASN	A	46151.875	12.844	-11.558	1.00	0.00	H
ATOM	643	HA	ASN	A	46150.852	13.021	-8.895	1.00	0.00	H
ATOM	644	1HB	ASN	A	46150.557	14.655	-10.922	1.00	0.00	H
ATOM	645	2HB	ASN	A	46149.191	13.619	-11.320	1.00	0.00	H
ATOM	646	1HD2	ASN	A	46150.599	15.468	-8.655	1.00	0.00	H
ATOM	647	2HD2	ASN	A	46149.091	15.936	-7.953	1.00	0.00	H
ATOM	648	N	GLU	A	47149.543	10.935	-8.693	1.00	0.00	N
ATOM	649	CA	GLU	A	47148.693	9.766	-8.511	1.00	0.00	C
ATOM	650	C	GLU	A	47148.523	9.444	-7.031	1.00	0.00	C
ATOM	651	O	GLU	A	47149.502	9.193	-6.327	1.00	0.00	O

ATOM	652	CB	GLU A	47149.286	8.558	-9.243	1.00	0.00	C
ATOM	653	CG	GLU A	47150.801	8.468	-9.150	1.00	0.00	C
ATOM	654	CD	GLU A	47151.389	7.499	-10.156	1.00	0.00	C
ATOM	655	OE1	GLU A	47151.498	7.871	-11.345	1.00	0.00	O
ATOM	656	OE2	GLU A	47151.742	6.370	-9.757	1.00	0.00	O
ATOM	657	H	GLU A	47150.064	11.268	-7.933	1.00	0.00	H
ATOM	658	HA	GLU A	47147.725	9.991	-8.932	1.00	0.00	H
ATOM	659	1HB	GLU A	47148.866	7.656	-8.820	1.00	0.00	H
ATOM	660	2HB	GLU A	47149.014	8.615	-10.286	1.00	0.00	H
ATOM	661	1HG	GLU A	47151.218	9.446	-9.329	1.00	0.00	H
ATOM	662	2HG	GLU A	47151.070	8.140	-8.157	1.00	0.00	H
ATOM	663	N	VAL A	48147.281	9.445	-6.564	1.00	0.00	N
ATOM	664	CA	VAL A	48146.998	9.146	-5.167	1.00	0.00	C
ATOM	665	C	VAL A	48147.382	7.708	-4.839	1.00	0.00	C
ATOM	666	O	VAL A	48146.654	6.771	-5.164	1.00	0.00	O
ATOM	667	CB	VAL A	48145.510	9.358	-4.832	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.280	9.261	-3.332	1.00	0.00	C
ATOM	669	CG2	VAL A	48145.028	10.698	-5.367	1.00	0.00	C
ATOM	670	H	VAL A	48146.539	9.647	-7.171	1.00	0.00	H
ATOM	671	HA	VAL A	48147.586	9.814	-4.555	1.00	0.00	H
ATOM	672	HB	VAL A	48144.938	8.577	-5.311	1.00	0.00	H
ATOM	673	1HG1	VAL A	48146.009	9.870	-2.816	1.00	0.00	H
ATOM	674	2HG1	VAL A	48145.384	8.234	-3.018	1.00	0.00	H
ATOM	675	3HG1	VAL A	48144.286	9.612	-3.096	1.00	0.00	H
ATOM	676	1HG2	VAL A	48144.888	10.631	-6.435	1.00	0.00	H
ATOM	677	2HG2	VAL A	48145.764	11.458	-5.149	1.00	0.00	H
ATOM	678	3HG2	VAL A	48144.092	10.958	-4.896	1.00	0.00	H
ATOM	679	N	LEU A	49148.535	7.539	-4.201	1.00	0.00	N
ATOM	680	CA	LEU A	49149.018	6.214	-3.836	1.00	0.00	C
ATOM	681	C	LEU A	49148.878	5.981	-2.338	1.00	0.00	C
ATOM	682	O	LEU A	49149.538	6.638	-1.532	1.00	0.00	O

ATOM	683	CB	LEU A	49150.480	6.046	-4.256	1.00	0.00	C
ATOM	684	CG	LEU A	49150.733	6.129	-5.763	1.00	0.00	C
ATOM	685	CD1	LEU A	49152.125	6.676	-6.041	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.556	4.763	-6.408	1.00	0.00	C
ATOM	687	H	LEU A	49149.075	8.325	-3.971	1.00	0.00	H
ATOM	688	HA	LEU A	49148.417	5.486	-4.360	1.00	0.00	H
ATOM	689	1HB	LEU A	49151.062	6.815	-3.771	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.824	5.084	-3.910	1.00	0.00	H
ATOM	691	HG	LEU A	49150.016	6.805	-6.206	1.00	0.00	H
ATOM	692	1HD1	LEU A	49152.859	6.065	-5.535	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.192	7.691	-5.679	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.313	6.658	-7.104	1.00	0.00	H
ATOM	695	1HD2	LEU A	49151.466	4.192	-6.299	1.00	0.00	H
ATOM	696	2HD2	LEU A	49150.332	4.887	-7.458	1.00	0.00	H
ATOM	697	3HD2	LEU A	49149.744	4.241	-5.927	1.00	0.00	H
ATOM	698	N	ALAA	50148.016	5.041	-1.969	1.00	0.00	N
ATOM	699	CA	ALAA	50147.792	4.725	-0.567	1.00	0.00	C
ATOM	700	C	ALAA	50148.710	3.597	-0.106	1.00	0.00	C
ATOM	701	O	ALAA	50148.601	2.465	-0.577	1.00	0.00	O
ATOM	702	CB	ALAA	50146.334	4.353	-0.335	1.00	0.00	C
ATOM	703	H	ALAA	50147.518	4.551	-2.657	1.00	0.00	H
ATOM	704	HA	ALAA	50148.009	5.613	0.009	1.00	0.00	H
ATOM	705	1HB	ALAA	50145.791	5.222	0.005	1.00	0.00	H
ATOM	706	2HB	ALAA	50146.275	3.576	0.412	1.00	0.00	H
ATOM	707	3HB	ALAA	50145.903	3.997	-1.259	1.00	0.00	H
ATOM	708	N	GLY A	51149.612	3.914	0.815	1.00	0.00	N
ATOM	709	CA	GLY A	51150.535	2.916	1.323	1.00	0.00	C
ATOM	710	C	GLY A	51149.844	1.863	2.167	1.00	0.00	C
ATOM	711	O	GLY A	51149.329	2.161	3.245	1.00	0.00	O
ATOM	712	H	GLY A	51149.653	4.833	1.153	1.00	0.00	H
ATOM	713	1HA	GLY A	51151.018	2.431	0.488	1.00	0.00	H

ATOM	714	2HA	GLY A	51151.286	3.408	1.924	1.00	0.00	H
ATOM	715	N	LEU A	52149.831	0.629	1.676	1.00	0.00	N
ATOM	716	CA	LEU A	52149.197	-0.472	2.394	1.00	0.00	C
ATOM	717	C	LEU A	52150.243	-1.373	3.043	1.00	0.00	C
ATOM	718	O	LEU A	52151.202	-1.795	2.395	1.00	0.00	O
ATOM	719	CB	LEU A	52148.321	-1.291	1.444	1.00	0.00	C
ATOM	720	CG	LEU A	52147.056	-0.582	0.958	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.413	-1.358	-0.180	1.00	0.00	C
ATOM	722	CD2	LEU A	52146.072	-0.402	2.105	1.00	0.00	C
ATOM	723	H	LEU A	52150.258	0.452	0.813	1.00	0.00	H
ATOM	724	HA	LEU A	52148.576	-0.048	3.168	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.914	-1.558	0.582	1.00	0.00	H
ATOM	726	2HB	LEU A	52148.025	-2.197	1.951	1.00	0.00	H
ATOM	727	HG	LEU A	52147.320	0.398	0.587	1.00	0.00	H
ATOM	728	1HD1	LEU A	52147.183	-1.760	-0.823	1.00	0.00	H
ATOM	729	2HD1	LEU A	52145.776	-0.698	-0.752	1.00	0.00	H
ATOM	730	3HD1	LEU A	52145.822	-2.167	0.223	1.00	0.00	H
ATOM	731	1HD2	LEU A	52146.235	-1.174	2.843	1.00	0.00	H
ATOM	732	2HD2	LEU A	52145.063	-0.473	1.728	1.00	0.00	H
ATOM	733	3HD2	LEU A	52146.220	0.567	2.558	1.00	0.00	H
ATOM	734	N	GLU A	53150.052	-1.664	4.326	1.00	0.00	N
ATOM	735	CA	GLU A	53150.978	-2.514	5.063	1.00	0.00	C
ATOM	736	C	GLU A	53150.455	-3.945	5.146	1.00	0.00	C
ATOM	737	O	GLU A	53149.489	-4.223	5.858	1.00	0.00	O
ATOM	738	CB	GLU A	53151.204	-1.959	6.470	1.00	0.00	C
ATOM	739	CG	GLU A	53152.193	-2.769	7.292	1.00	0.00	C
ATOM	740	CD	GLU A	53151.825	-2.820	8.762	1.00	0.00	C
ATOM	741	OE1	GLU A	53150.789	-3.436	9.095	1.00	0.00	O
ATOM	742	OE2	GLU A	53152.571	-2.244	9.581	1.00	0.00	O
ATOM	743	H	GLU A	53149.269	-1.297	4.787	1.00	0.00	H
ATOM	744	HA	GLU A	53151.919	-2.519	4.532	1.00	0.00	H

ATOM	745	1HB	GLU A	53151.577	-0.949	6.391	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.259	-1.944	6.995	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.219	-3.779	6.909	1.00	0.00	H
ATOM	748	2HG	GLU A	53153.172	-2.323	7.196	1.00	0.00	H
ATOM	749	N	LEU A	54151.097	-4.848	4.413	1.00	0.00	N
ATOM	750	CA	LEU A	54150.696	-6.250	4.404	1.00	0.00	C
ATOM	751	C	LEU A	54150.964	-6.903	5.757	1.00	0.00	C
ATOM	752	O	LEU A	54152.037	-6.735	6.335	1.00	0.00	O
ATOM	753	CB	LEU A	54151.439	-7.008	3.302	1.00	0.00	C
ATOM	754	CG	LEU A	54151.377	-6.362	1.917	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.577	-6.778	1.080	1.00	0.00	C
ATOM	756	CD2	LEU A	54150.080	-6.734	1.215	1.00	0.00	C
ATOM	757	H	LEU A	54151.859	-4.565	3.866	1.00	0.00	H
ATOM	758	HA	LEU A	54149.635	-6.290	4.203	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.476	-7.094	3.591	1.00	0.00	H
ATOM	760	2HB	LEU A	54151.019	-8.000	3.231	1.00	0.00	H
ATOM	761	HG	LEU A	54151.404	-5.288	2.026	1.00	0.00	H
ATOM	762	1HD1	LEU A	54152.294	-6.815	0.038	1.00	0.00	H
ATOM	763	2HD1	LEU A	54152.914	-7.755	1.396	1.00	0.00	H
ATOM	764	3HD1	LEU A	54153.373	-6.062	1.212	1.00	0.00	H
ATOM	765	1HD2	LEU A	54150.087	-6.336	0.212	1.00	0.00	H
ATOM	766	2HD2	LEU A	54149.244	-6.321	1.761	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.988	-7.809	1.175	1.00	0.00	H
ATOM	768	N	GLU A	55149.981	-7.645	6.255	1.00	0.00	N
ATOM	769	CA	GLU A	55150.112	-8.323	7.540	1.00	0.00	C
ATOM	770	C	GLU A	55151.134	-9.452	7.459	1.00	0.00	C
ATOM	771	O	GLU A	55151.849	-9.725	8.422	1.00	0.00	O
ATOM	772	CB	GLU A	55148.758	-8.876	7.988	1.00	0.00	C
ATOM	773	CG	GLU A	55147.661	-7.825	8.049	1.00	0.00	C
ATOM	774	CD	GLU A	55146.606	-8.144	9.089	1.00	0.00	C
ATOM	775	OE1	GLU A	55146.111	-7.202	9.743	1.00	0.00	O

ATOM	776	OE2	GLU A	55146.273	-9.338	9.250	1.00	0.00	O
ATOM	777	H	GLU A	55149.149	-7.740	5.746	1.00	0.00	H
ATOM	778	HA	GLU A	55150.452	-7.597	8.264	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.450	-9.646	7.297	1.00	0.00	H
ATOM	780	2HB	GLU A	55148.867	-9.310	8.971	1.00	0.00	H
ATOM	781	1HG	GLU A	55148.106	-6.873	8.292	1.00	0.00	H
ATOM	782	2HG	GLU A	55147.185	-7.764	7.081	1.00	0.00	H
ATOM	783	N	ASP A	56151.196	-10.104	6.302	1.00	0.00	N
ATOM	784	CA	ASP A	56152.131	-11.204	6.095	1.00	0.00	C
ATOM	785	C	ASP A	56153.441	-10.699	5.500	1.00	0.00	C
ATOM	786	O	ASP A	56153.443	-9.875	4.585	1.00	0.00	O
ATOM	787	CB	ASP A	56151.513	-12.260	5.178	1.00	0.00	C
ATOM	788	CG	ASP A	56151.896	-13.671	5.579	1.00	0.00	C
ATOM	789	OD1	ASP A	56152.482	-14.388	4.741	1.00	0.00	O
ATOM	790	OD2	ASP A	56151.612	-14.057	6.733	1.00	0.00	O
ATOM	791	H	ASP A	56150.601	-9.839	5.571	1.00	0.00	H
ATOM	792	HA	ASP A	56152.336	-11.650	7.057	1.00	0.00	H
ATOM	793	1HB	ASP A	56150.437	-12.175	5.214	1.00	0.00	H
ATOM	794	2HB	ASP A	56151.849	-12.090	4.165	1.00	0.00	H
ATOM	795	N	GLU A	57154.555	-11.200	6.023	1.00	0.00	N
ATOM	796	CA	GLU A	57155.873	-10.799	5.543	1.00	0.00	C
ATOM	797	C	GLU A	57156.191	-11.467	4.209	1.00	0.00	C
ATOM	798	O	GLU A	57156.569	-12.637	4.163	1.00	0.00	O
ATOM	799	CB	GLU A	57156.945	-11.158	6.573	1.00	0.00	C
ATOM	800	CG	GLU A	57157.202	-10.058	7.591	1.00	0.00	C
ATOM	801	CD	GLU A	57158.675	-9.895	7.913	1.00	0.00	C
ATOM	802	OE1	GLU A	57159.507	-10.090	7.002	1.00	0.00	O
ATOM	803	OE2	GLU A	57158.996	-9.573	9.076	1.00	0.00	O
ATOM	804	H	GLU A	57154.490	-11.854	6.750	1.00	0.00	H
ATOM	805	HA	GLU A	57155.864	-9.729	5.403	1.00	0.00	H
ATOM	806	1HB	GLU A	57156.635	-12.045	7.106	1.00	0.00	H

ATOM	807	2HB	GLU A	57157.871	-11.364	6.057	1.00	0.00	H
ATOM	808	1HG	GLU A	57156.832	-9.125	7.194	1.00	0.00	H
ATOM	809	2HG	GLU A	57156.673	-10.298	8.502	1.00	0.00	H
ATOM	810	N	CYS A	58156.035	-10.715	3.125	1.00	0.00	N
ATOM	811	CA	CYS A	58156.305	-11.234	1.789	1.00	0.00	C
ATOM	812	C	CYS A	58157.612	-10.668	1.241	1.00	0.00	C
ATOM	813	O	CYS A	58157.877	-9.472	1.350	1.00	0.00	O
ATOM	814	CB	CYS A	58155.153	-10.892	0.844	1.00	0.00	C
ATOM	815	SG	CYS A	58154.828	-12.155	-0.409	1.00	0.00	S
ATOM	816	H	CYS A	58155.731	-9.788	3.225	1.00	0.00	H
ATOM	817	HA	CYS A	58156.393	-12.307	1.862	1.00	0.00	H
ATOM	818	1HB	CYS A	58154.249	-10.764	1.421	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.378	-9.970	0.330	1.00	0.00	H
ATOM	820	HG	CYS A	58155.382	-11.967	-1.171	1.00	0.00	H
ATOM	821	N	ALAA	59158.424	-11.538	0.649	1.00	0.00	N
ATOM	822	CA	ALAA	59159.704	-11.127	0.083	1.00	0.00	C
ATOM	823	C	ALAA	59159.504	-10.336	-1.206	1.00	0.00	C
ATOM	824	O	ALAA	59158.946	-10.845	-2.177	1.00	0.00	O
ATOM	825	CB	ALAA	59160.583	-12.342	-0.172	1.00	0.00	C
ATOM	826	H	ALAA	59158.157	-12.480	0.592	1.00	0.00	H
ATOM	827	HA	ALAA	59160.201	-10.498	0.806	1.00	0.00	H
ATOM	828	1HB	ALAA	59160.533	-13.006	0.679	1.00	0.00	H
ATOM	829	2HB	ALAA	59161.604	-12.022	-0.319	1.00	0.00	H
ATOM	830	3HB	ALAA	59160.235	-12.859	-1.053	1.00	0.00	H
ATOM	831	N	GLY A	60159.964	-9.090	-1.206	1.00	0.00	N
ATOM	832	CA	GLY A	60159.828	-8.249	-2.381	1.00	0.00	C
ATOM	833	C	GLY A	60159.332	-6.857	-2.044	1.00	0.00	C
ATOM	834	O	GLY A	60159.634	-5.895	-2.751	1.00	0.00	O
ATOM	835	H	GLY A	60160.402	-8.738	-0.403	1.00	0.00	H
ATOM	836	1HA	GLY A	60160.789	-8.169	-2.868	1.00	0.00	H
ATOM	837	2HA	GLY A	60159.129	-8.713	-3.063	1.00	0.00	H

ATOM	838	N	CYS A	61158.569	-6.749	-0.961	1.00	0.00	N
ATOM	839	CA	CYS A	61158.030	-5.464	-0.533	1.00	0.00	C
ATOM	840	C	CYS A	61159.088	-4.647	0.201	1.00	0.00	C
ATOM	841	O	CYS A	61160.199	-5.122	0.439	1.00	0.00	O
ATOM	842	CB	CYS A	61156.814	-5.674	0.372	1.00	0.00	C
ATOM	843	SG	CYS A	61155.538	-6.739	-0.343	1.00	0.00	S
ATOM	844	H	CYS A	61158.363	-7.552	-0.440	1.00	0.00	H
ATOM	845	HA	CYS A	61157.721	-4.923	-1.414	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.137	-6.126	1.297	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.361	-4.716	0.584	1.00	0.00	H
ATOM	848	HG	CYS A	61155.374	-6.443	-1.241	1.00	0.00	H
ATOM	849	N	THR A	62158.736	-3.416	0.557	1.00	0.00	N
ATOM	850	CA	THR A	62159.656	-2.532	1.265	1.00	0.00	C
ATOM	851	C	THR A	62159.205	-2.320	2.707	1.00	0.00	C
ATOM	852	O	THR A	62158.208	-2.893	3.147	1.00	0.00	O
ATOM	853	CB	THR A	62159.755	-1.186	0.546	1.00	0.00	C
ATOM	854	OG1	THR A	62158.468	-0.633	0.336	1.00	0.00	O
ATOM	855	CG2	THR A	62160.441	-1.276	-0.800	1.00	0.00	C
ATOM	856	H	THR A	62157.835	-3.094	0.341	1.00	0.00	H
ATOM	857	HA	THR A	62160.628	-3.001	1.270	1.00	0.00	H
ATOM	858	HB	THR A	62160.322	-0.502	1.161	1.00	0.00	H
ATOM	859	HG1	THR A	62158.158	-0.226	1.149	1.00	0.00	H
ATOM	860	1HG2	THR A	62160.407	-2.296	-1.154	1.00	0.00	H
ATOM	861	2HG2	THR A	62161.470	-0.963	-0.701	1.00	0.00	H
ATOM	862	3HG2	THR A	62159.936	-0.634	-1.506	1.00	0.00	H
ATOM	863	N	ASP A	63159.946	-1.492	3.437	1.00	0.00	N
ATOM	864	CA	ASP A	63159.622	-1.204	4.830	1.00	0.00	C
ATOM	865	C	ASP A	63158.872	0.118	4.951	1.00	0.00	C
ATOM	866	O	ASP A	63158.994	0.823	5.953	1.00	0.00	O
ATOM	867	CB	ASP A	63160.897	-1.160	5.673	1.00	0.00	C
ATOM	868	CG	ASP A	63161.958	-0.260	5.071	1.00	0.00	C

ATOM	869	OD1 ASP A	63161.917	0.962	5.329	1.00	0.00	O
ATOM	870	OD2 ASP A	63162.830	-0.775	4.341	1.00	0.00	O
ATOM	871	H ASP A	63160.728	-1.066	3.030	1.00	0.00	H
ATOM	872	HA ASP A	63158.988	-1.998	5.194	1.00	0.00	H
ATOM	873	1HB ASP A	63160.658	-0.792	6.659	1.00	0.00	H
ATOM	874	2HB ASP A	63161.302	-2.158	5.755	1.00	0.00	H
ATOM	875	N GLY A	64158.097	0.449	3.923	1.00	0.00	N
ATOM	876	CA GLY A	64157.338	1.687	3.936	1.00	0.00	C
ATOM	877	C GLY A	64158.086	2.832	3.282	1.00	0.00	C
ATOM	878	O GLY A	64158.057	3.960	3.772	1.00	0.00	O
ATOM	879	H GLY A	64158.038	-0.151	3.152	1.00	0.00	H
ATOM	880	1HA GLY A	64156.408	1.532	3.409	1.00	0.00	H
ATOM	881	2HA GLY A	64157.119	1.951	4.959	1.00	0.00	H
ATOM	882	N THR A	65158.759	2.540	2.173	1.00	0.00	N
ATOM	883	CA THR A	65159.518	3.555	1.451	1.00	0.00	C
ATOM	884	C THR A	65159.186	3.527	-0.037	1.00	0.00	C
ATOM	885	O THR A	65159.401	2.520	-0.712	1.00	0.00	O
ATOM	886	CB THR A	65161.018	3.339	1.654	1.00	0.00	C
ATOM	887	OG1 THR A	65161.361	1.979	1.450	1.00	0.00	O
ATOM	888	CG2 THR A	65161.498	3.730	3.036	1.00	0.00	C
ATOM	889	H THR A	65158.743	1.622	1.832	1.00	0.00	H
ATOM	890	HA THR A	65159.246	4.520	1.851	1.00	0.00	H
ATOM	891	HB THR A	65161.559	3.937	0.935	1.00	0.00	H
ATOM	892	HG1 THR A	65160.987	1.675	0.620	1.00	0.00	H
ATOM	893	1HG2 THR A	65161.971	2.882	3.507	1.00	0.00	H
ATOM	894	2HG2 THR A	65160.656	4.050	3.632	1.00	0.00	H
ATOM	895	3HG2 THR A	65162.209	4.539	2.954	1.00	0.00	H
ATOM	896	N PHE A	66158.661	4.639	-0.541	1.00	0.00	N
ATOM	897	CA PHE A	66158.299	4.742	-1.950	1.00	0.00	C
ATOM	898	C PHE A	66159.221	5.716	-2.679	1.00	0.00	C
ATOM	899	O PHE A	66159.301	6.892	-2.326	1.00	0.00	O

ATOM	900	CB	PHE A	66156.845	5.196	-2.093	1.00	0.00	C
ATOM	901	CG	PHE A	66156.255	4.906	-3.443	1.00	0.00	C
ATOM	902	CD1	PHE A	66155.891	3.615	-3.791	1.00	0.00	C
ATOM	903	CD2	PHE A	66156.065	5.924	-4.364	1.00	0.00	C
ATOM	904	CE1	PHE A	66155.348	3.345	-5.033	1.00	0.00	C
ATOM	905	CE2	PHE A	66155.523	5.659	-5.607	1.00	0.00	C
ATOM	906	CZ	PHE A	66155.163	4.368	-5.943	1.00	0.00	C
ATOM	907	H	PHE A	66158.514	5.408	0.047	1.00	0.00	H
ATOM	908	HA	PHE A	66158.406	3.764	-2.393	1.00	0.00	H
ATOM	909	1HB	PHE A	66156.243	4.691	-1.353	1.00	0.00	H
ATOM	910	2HB	PHE A	66156.791	6.263	-1.927	1.00	0.00	H
ATOM	911	HD1	PHE A	66156.035	2.814	-3.082	1.00	0.00	H
ATOM	912	HD2	PHE A	66156.345	6.933	-4.104	1.00	0.00	H
ATOM	913	HE1	PHE A	66155.069	2.333	-5.293	1.00	0.00	H
ATOM	914	HE2	PHE A	66155.379	6.461	-6.316	1.00	0.00	H
ATOM	915	HZ	PHE A	66154.739	4.159	-6.913	1.00	0.00	H
ATOM	916	N	ARG A	67159.915	5.216	-3.697	1.00	0.00	N
ATOM	917	CA	ARG A	67160.832	6.041	-4.475	1.00	0.00	C
ATOM	918	C	ARG A	67161.929	6.620	-3.587	1.00	0.00	C
ATOM	919	O	ARG A	67162.433	7.715	-3.841	1.00	0.00	O
ATOM	920	CB	ARG A	67160.070	7.173	-5.166	1.00	0.00	C
ATOM	921	CG	ARG A	67158.877	6.694	-5.979	1.00	0.00	C
ATOM	922	CD	ARG A	67159.187	6.672	-7.467	1.00	0.00	C
ATOM	923	NE	ARG A	67158.148	5.989	-8.234	1.00	0.00	N
ATOM	924	CZ	ARG A	67158.009	6.095	-9.553	1.00	0.00	C
ATOM	925	NH1	ARG A	67158.840	6.854	-10.257	1.00	0.00	N
ATOM	926	NH2	ARG A	67157.035	5.440	-10.172	1.00	0.00	N
ATOM	927	H	ARG A	67159.809	4.270	-3.929	1.00	0.00	H
ATOM	928	HA	ARG A	67161.287	5.413	-5.225	1.00	0.00	H
ATOM	929	1HB	ARG A	67159.713	7.862	-4.417	1.00	0.00	H
ATOM	930	2HB	ARG A	67160.746	7.692	-5.830	1.00	0.00	H

ATOM	931	1HG	ARG A	67158.615	5.696	-5.662	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.045	7.361	-5.805	1.00	0.00	H
ATOM	933	1HD	ARG A	67159.272	7.689	-7.821	1.00	0.00	H
ATOM	934	2HD	ARG A	67160.127	6.161	-7.618	1.00	0.00	H
ATOM	935	HE	ARG A	67157.520	5.422	-7.739	1.00	0.00	H
ATOM	936	1HH1	ARG A	67159.576	7.350	-9.797	1.00	0.00	H
ATOM	937	2HH1	ARG A	67158.731	6.929	-11.248	1.00	0.00	H
ATOM	938	1HH2	ARG A	67156.407	4.867	-9.647	1.00	0.00	H
ATOM	939	2HH2	ARG A	67156.931	5.520	-11.163	1.00	0.00	H
ATOM	940	N	GLY A	68162.294	5.880	-2.546	1.00	0.00	N
ATOM	941	CA	GLY A	68163.328	6.336	-1.637	1.00	0.00	C
ATOM	942	C	GLY A	68162.851	7.452	-0.728	1.00	0.00	C
ATOM	943	O	GLY A	68163.645	8.277	-0.277	1.00	0.00	O
ATOM	944	H	GLY A	68161.858	5.016	-2.394	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.650	5.504	-1.028	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.169	6.692	-2.215	1.00	0.00	H
ATOM	947	N	THR A	69161.549	7.477	-0.459	1.00	0.00	N
ATOM	948	CA	THR A	69160.967	8.500	0.402	1.00	0.00	C
ATOM	949	C	THR A	69160.013	7.879	1.417	1.00	0.00	C
ATOM	950	O	THR A	69158.835	7.665	1.126	1.00	0.00	O
ATOM	951	CB	THR A	69160.228	9.543	-0.438	1.00	0.00	C
ATOM	952	OG1	THR A	69161.060	10.033	-1.474	1.00	0.00	O
ATOM	953	CG2	THR A	69159.750	10.732	0.367	1.00	0.00	C
ATOM	954	H	THR A	69160.967	6.792	-0.848	1.00	0.00	H
ATOM	955	HA	THR A	69161.772	8.984	0.934	1.00	0.00	H
ATOM	956	HB	THR A	69159.362	9.079	-0.889	1.00	0.00	H
ATOM	957	HG1	THR A	69161.864	10.397	-1.095	1.00	0.00	H
ATOM	958	1HG2	THR A	69158.755	11.006	0.048	1.00	0.00	H
ATOM	959	2HG2	THR A	69160.421	11.564	0.214	1.00	0.00	H
ATOM	960	3HG2	THR A	69159.732	10.473	1.416	1.00	0.00	H
ATOM	961	N	ARG A	70160.528	7.590	2.608	1.00	0.00	N

ATOM	962	CA	ARG A	70159.721	6.993	3.665	1.00	0.00	C
ATOM	963	C	ARG A	70158.604	7.938	4.097	1.00	0.00	C
ATOM	964	O	ARG A	70158.855	9.085	4.463	1.00	0.00	O
ATOM	965	CB	ARG A	70160.598	6.640	4.867	1.00	0.00	C
ATOM	966	CG	ARG A	70159.836	5.977	6.004	1.00	0.00	C
ATOM	967	CD	ARG A	70160.300	6.481	7.361	1.00	0.00	C
ATOM	968	NE	ARG A	70160.874	5.412	8.175	1.00	0.00	N
ATOM	969	CZ	ARG A	70161.488	5.614	9.338	1.00	0.00	C
ATOM	970	NH1	ARG A	70161.607	6.842	9.829	1.00	0.00	N
ATOM	971	NH2	ARG A	70161.982	4.586	10.014	1.00	0.00	N
ATOM	972	H	ARG A	70161.472	7.783	2.779	1.00	0.00	H
ATOM	973	HA	ARG A	70159.279	6.088	3.274	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.378	5.965	4.544	1.00	0.00	H
ATOM	975	2HB	ARG A	70161.052	7.544	5.245	1.00	0.00	H
ATOM	976	1HG	ARG A	70158.784	6.193	5.892	1.00	0.00	H
ATOM	977	2HG	ARG A	70159.992	4.908	5.953	1.00	0.00	H
ATOM	978	1HD	ARG A	70161.046	7.247	7.213	1.00	0.00	H
ATOM	979	2HD	ARG A	70159.453	6.901	7.883	1.00	0.00	H
ATOM	980	HE	ARG A	70160.800	4.496	7.836	1.00	0.00	H
ATOM	981	1HH1	ARG A	70161.237	7.621	9.325	1.00	0.00	H
ATOM	982	2HH1	ARG A	70162.069	6.987	10.705	1.00	0.00	H
ATOM	983	1HH2	ARG A	70161.894	3.659	9.650	1.00	0.00	H
ATOM	984	2HH2	ARG A	70162.443	4.738	10.889	1.00	0.00	H
ATOM	985	N	TYR A	71157.370	7.446	4.052	1.00	0.00	N
ATOM	986	CA	TYR A	71156.214	8.246	4.439	1.00	0.00	C
ATOM	987	C	TYR A	71155.763	7.901	5.855	1.00	0.00	C
ATOM	988	O	TYR A	71155.335	8.772	6.611	1.00	0.00	O
ATOM	989	CB	TYR A	71155.062	8.026	3.457	1.00	0.00	C
ATOM	990	CG	TYR A	71155.320	8.599	2.082	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.325	7.783	0.958	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.557	9.957	1.908	1.00	0.00	C

ATOM	993	CE1 TYR A	71155.560	8.303	-0.301	1.00	0.00	C
ATOM	994	CE2 TYR A	71155.793	10.485	0.652	1.00	0.00	C
ATOM	995	CZ TYR A	71155.794	9.654	-0.448	1.00	0.00	C
ATOM	996	OH TYR A	71156.028	10.176	-1.700	1.00	0.00	O
ATOM	997	H TYR A	71157.233	6.523	3.751	1.00	0.00	H
ATOM	998	HA TYR A	71156.506	9.285	4.410	1.00	0.00	H
ATOM	999	1HB TYR A	71154.891	6.965	3.347	1.00	0.00	H
ATOM	1000	2HB TYR A	71154.170	8.491	3.849	1.00	0.00	H
ATOM	1001	HD1 TYR A	71155.142	6.725	1.076	1.00	0.00	H
ATOM	1002	HD2 TYR A	71155.557	10.605	2.772	1.00	0.00	H
ATOM	1003	HE1 TYR A	71155.561	7.653	-1.163	1.00	0.00	H
ATOM	1004	HE2 TYR A	71155.976	11.543	0.538	1.00	0.00	H
ATOM	1005	HH TYR A	71155.312	9.928	-2.289	1.00	0.00	H
ATOM	1006	N PHE A	72155.865	6.623	6.207	1.00	0.00	N
ATOM	1007	CA PHE A	72155.467	6.162	7.533	1.00	0.00	C
ATOM	1008	C PHE A	72156.458	5.134	8.069	1.00	0.00	C
ATOM	1009	O PHE A	72157.415	4.764	7.388	1.00	0.00	O
ATOM	1010	CB PHE A	72154.063	5.558	7.486	1.00	0.00	C
ATOM	1011	CG PHE A	72153.887	4.530	6.405	1.00	0.00	C
ATOM	1012	CD1 PHE A	72153.603	4.914	5.104	1.00	0.00	C
ATOM	1013	CD2 PHE A	72154.006	3.179	6.690	1.00	0.00	C
ATOM	1014	CE1 PHE A	72153.441	3.971	4.108	1.00	0.00	C
ATOM	1015	CE2 PHE A	72153.844	2.231	5.697	1.00	0.00	C
ATOM	1016	CZ PHE A	72153.562	2.628	4.405	1.00	0.00	C
ATOM	1017	H PHE A	72156.214	5.975	5.561	1.00	0.00	H
ATOM	1018	HA PHE A	72155.461	7.017	8.192	1.00	0.00	H
ATOM	1019	1HB PHE A	72153.851	5.084	8.432	1.00	0.00	H
ATOM	1020	2HB PHE A	72153.345	6.348	7.315	1.00	0.00	H
ATOM	1021	HD1 PHE A	72153.509	5.965	4.871	1.00	0.00	H
ATOM	1022	HD2 PHE A	72154.227	2.868	7.700	1.00	0.00	H
ATOM	1023	HE1 PHE A	72153.219	4.284	3.097	1.00	0.00	H

ATOM 1024 HE2 PHE A 72153.939 1.181 5.932 1.00 0.00 H
 ATOM 1025 HZ PHE A 72153.435 1.888 3.628 1.00 0.00 H
 ATOM 1026 N THR A 73156.221 4.676 9.294 1.00 0.00 N
 ATOM 1027 CA THR A 73157.093 3.690 9.923 1.00 0.00 C
 ATOM 1028 C THR A 73156.375 2.353 10.085 1.00 0.00 C
 ATOM 1029 O THR A 73155.407 2.245 10.838 1.00 0.00 O
 ATOM 1030 CB THR A 73157.569 4.194 11.287 1.00 0.00 C
 ATOM 1031 OG1 THR A 73157.769 5.596 11.260 1.00 0.00 O
 ATOM 1032 CG2 THR A 73158.861 3.554 11.744 1.00 0.00 C
 ATOM 1033 H THR A 73155.443 5.008 9.787 1.00 0.00 H
 ATOM 1034 HA THR A 73157.950 3.549 9.283 1.00 0.00 H
 ATOM 1035 HB THR A 73156.810 3.974 12.025 1.00 0.00 H
 ATOM 1036 HG1 THR A 73158.374 5.820 10.549 1.00 0.00 H
 ATOM 1037 1HG2 THR A 73158.644 2.615 12.232 1.00 0.00 H
 ATOM 1038 2HG2 THR A 73159.362 4.213 12.438 1.00 0.00 H
 ATOM 1039 3HG2 THR A 73159.498 3.378 10.890 1.00 0.00 H
 ATOM 1040 N CYS A 74156.856 1.339 9.374 1.00 0.00 N
 ATOM 1041 CA CYS A 74156.259 0.010 9.438 1.00 0.00 C
 ATOM 1042 C CYS A 74157.337 -1.069 9.474 1.00 0.00 C
 ATOM 1043 O CYS A 74158.530 -0.770 9.420 1.00 0.00 O
 ATOM 1044 CB CYS A 74155.333 -0.215 8.241 1.00 0.00 C
 ATOM 1045 SG CYS A 74153.621 0.290 8.527 1.00 0.00 S
 ATOM 1046 H CYS A 74157.629 1.488 8.790 1.00 0.00 H
 ATOM 1047 HA CYS A 74155.679 -0.049 10.346 1.00 0.00 H
 ATOM 1048 1HB CYS A 74155.705 0.347 7.398 1.00 0.00 H
 ATOM 1049 2HB CYS A 74155.329 -1.267 7.992 1.00 0.00 H
 ATOM 1050 HG CYS A 74153.631 1.051 9.113 1.00 0.00 H
 ATOM 1051 N ALA A 75156.908 -2.324 9.562 1.00 0.00 N
 ATOM 1052 CA ALA A 75157.836 -3.447 9.604 1.00 0.00 C
 ATOM 1053 C ALA A 75158.524 -3.641 8.257 1.00 0.00 C
 ATOM 1054 O ALA A 75158.192 -2.974 7.277 1.00 0.00 O

ATOM 1055 CB ALAA 75157.108 -4.718 10.014 1.00 0.00 C
 ATOM 1056 H ALAA 75155.945 -2.498 9.601 1.00 0.00 H
 ATOM 1057 HA ALAA 75158.586 -3.232 10.352 1.00 0.00 H
 ATOM 1058 1HB ALAA 75156.868 -5.295 9.134 1.00 0.00 H
 ATOM 1059 2HB ALAA 75156.197 -4.459 10.535 1.00 0.00 H
 ATOM 1060 3HB ALAA 75157.741 -5.301 10.666 1.00 0.00 H
 ATOM 1061 N LEUA 76159.485 -4.558 8.216 1.00 0.00 N
 ATOM 1062 CA LEUA 76160.222 -4.840 6.989 1.00 0.00 C
 ATOM 1063 C LEUA 76159.471 -5.846 6.123 1.00 0.00 C
 ATOM 1064 O LEUA 76158.917 -6.822 6.628 1.00 0.00 O
 ATOM 1065 CB LEUA 76161.617 -5.374 7.317 1.00 0.00 C
 ATOM 1066 CG LEUA 76162.644 -4.307 7.700 1.00 0.00 C
 ATOM 1067 CD1 LEUA 76163.639 -4.860 8.709 1.00 0.00 C
 ATOM 1068 CD2 LEUA 76163.367 -3.795 6.463 1.00 0.00 C
 ATOM 1069 H LEUA 76159.706 -5.056 9.031 1.00 0.00 H
 ATOM 1070 HA LEUA 76160.320 -3.914 6.442 1.00 0.00 H
 ATOM 1071 1HB LEUA 76161.529 -6.070 8.139 1.00 0.00 H
 ATOM 1072 2HB LEUA 76161.988 -5.905 6.455 1.00 0.00 H
 ATOM 1073 HG LEUA 76162.134 -3.472 8.159 1.00 0.00 H
 ATOM 1074 1HD1 LEUA 76163.261 -4.706 9.709 1.00 0.00 H
 ATOM 1075 2HD1 LEUA 76164.585 -4.352 8.600 1.00 0.00 H
 ATOM 1076 3HD1 LEUA 76163.777 -5.919 8.536 1.00 0.00 H
 ATOM 1077 1HD2 LEUA 76162.751 -3.963 5.592 1.00 0.00 H
 ATOM 1078 2HD2 LEUA 76164.302 -4.323 6.349 1.00 0.00 H
 ATOM 1079 3HD2 LEUA 76163.560 -2.739 6.570 1.00 0.00 H
 ATOM 1080 N LYSA 77159.456 -5.600 4.817 1.00 0.00 N
 ATOM 1081 CA LYSA 77158.773 -6.486 3.881 1.00 0.00 C
 ATOM 1082 C LYSA 77157.282 -6.563 4.193 1.00 0.00 C
 ATOM 1083 O LYSA 77156.676 -7.632 4.119 1.00 0.00 O
 ATOM 1084 CB LYSA 77159.390 -7.885 3.928 1.00 0.00 C
 ATOM 1085 CG LYSA 77160.875 -7.906 3.603 1.00 0.00 C

ATOM	1086	CD	LYS A	77161.118	-7.884	2.103	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.543	-7.467	1.776	1.00	0.00	C
ATOM	1088	NZ	LYS A	77163.090	-8.220	0.614	1.00	0.00	N
ATOM	1089	H	LYS A	77159.916	-4.805	4.475	1.00	0.00	H
ATOM	1090	HA	LYS A	77158.900	-6.079	2.889	1.00	0.00	H
ATOM	1091	1HB	LYS A	77159.255	-8.293	4.918	1.00	0.00	H
ATOM	1092	2HB	LYS A	77158.879	-8.515	3.215	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.343	-7.040	4.047	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.311	-8.804	4.017	1.00	0.00	H
ATOM	1095	1HD	LYS A	77160.944	-8.872	1.705	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.434	-7.183	1.648	1.00	0.00	H
ATOM	1097	1HE	LYS A	77162.551	-6.412	1.544	1.00	0.00	H
ATOM	1098	2HE	LYS A	77163.166	-7.649	2.639	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77162.550	-7.995	-0.246	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77163.028	-9.244	0.790	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77164.088	-7.967	0.461	1.00	0.00	H
ATOM	1102	N	LYS A	78156.696	-5.423	4.544	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.275	-5.362	4.868	1.00	0.00	C
ATOM	1104	C	LYS A	78154.692	-4.001	4.500	1.00	0.00	C
ATOM	1105	O	LYS A	78153.843	-3.465	5.212	1.00	0.00	O
ATOM	1106	CB	LYS A	78155.058	-5.638	6.357	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.577	-6.994	6.806	1.00	0.00	C
ATOM	1108	CD	LYS A	78155.301	-7.234	8.282	1.00	0.00	C
ATOM	1109	CE	LYS A	78154.066	-8.098	8.483	1.00	0.00	C
ATOM	1110	NZ	LYS A	78153.349	-7.755	9.743	1.00	0.00	N
ATOM	1111	H	LYS A	78157.232	-4.604	4.586	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.772	-6.123	4.293	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.565	-4.875	6.930	1.00	0.00	H
ATOM	1114	2HB	LYS A	78154.001	-5.592	6.569	1.00	0.00	H
ATOM	1115	1HG	LYS A	78155.089	-7.764	6.228	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.643	-7.035	6.636	1.00	0.00	H

ATOM	1117	1HD	LYS A	78156.152	-7.734	8.720	1.00	0.00	H
ATOM	1118	2HD	LYS A	78155.148	-6.283	8.769	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.399	-7.950	7.649	1.00	0.00	H
ATOM	1120	2HE	LYS A	78154.369	-9.134	8.522	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78152.922	-8.610	10.155	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78152.597	-7.065	9.549	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78154.012	-7.345	10.431	1.00	0.00	H
ATOM	1124	N	ALAA	79155.152	-3.448	3.382	1.00	0.00	N
ATOM	1125	CA	ALAA	79154.674	-2.151	2.920	1.00	0.00	C
ATOM	1126	C	ALAA	79154.599	-2.103	1.397	1.00	0.00	C
ATOM	1127	O	ALAA	79155.621	-2.002	0.719	1.00	0.00	O
ATOM	1128	CB	ALAA	79155.576	-1.041	3.440	1.00	0.00	C
ATOM	1129	H	ALAA	79155.828	-3.923	2.856	1.00	0.00	H
ATOM	1130	HA	ALAA	79153.684	-1.996	3.324	1.00	0.00	H
ATOM	1131	1HB	ALAA	79155.178	-0.659	4.369	1.00	0.00	H
ATOM	1132	2HB	ALAA	79155.621	-0.243	2.714	1.00	0.00	H
ATOM	1133	3HB	ALAA	79156.569	-1.432	3.607	1.00	0.00	H
ATOM	1134	N	LEU A	80153.382	-2.177	0.868	1.00	0.00	N
ATOM	1135	CA	LEU A	80153.172	-2.143	-0.576	1.00	0.00	C
ATOM	1136	C	LEU A	80152.306	-0.951	-0.970	1.00	0.00	C
ATOM	1137	O	LEU A	80151.157	-0.836	-0.541	1.00	0.00	O
ATOM	1138	CB	LEU A	80152.518	-3.443	-1.047	1.00	0.00	C
ATOM	1139	CG	LEU A	80152.189	-3.497	-2.540	1.00	0.00	C
ATOM	1140	CD1	LEU A	80153.449	-3.741	-3.356	1.00	0.00	C
ATOM	1141	CD2	LEU A	80151.155	-4.579	-2.817	1.00	0.00	C
ATOM	1142	H	LEU A	80152.606	-2.257	1.462	1.00	0.00	H
ATOM	1143	HA	LEU A	80154.137	-2.043	-1.049	1.00	0.00	H
ATOM	1144	1HB	LEU A	80153.185	-4.261	-0.816	1.00	0.00	H
ATOM	1145	2HB	LEU A	80151.601	-3.581	-0.494	1.00	0.00	H
ATOM	1146	HG	LEU A	80151.772	-2.549	-2.845	1.00	0.00	H
ATOM	1147	1HD1	LEU A	80153.391	-3.188	-4.282	1.00	0.00	H

ATOM 1148 2HD1 LEU A 80153.541 -4.794 -3.571 1.00 0.00 H
 ATOM 1149 3HD1 LEU A 80154.311 -3.411 -2.794 1.00 0.00 H
 ATOM 1150 1HD2 LEU A 80150.553 -4.292 -3.666 1.00 0.00 H
 ATOM 1151 2HD2 LEU A 80150.522 -4.703 -1.951 1.00 0.00 H
 ATOM 1152 3HD2 LEU A 80151.658 -5.511 -3.032 1.00 0.00 H
 ATOM 1153 N PHE A 81152.863 -0.066 -1.789 1.00 0.00 N
 ATOM 1154 CA PHE A 81152.142 1.118 -2.242 1.00 0.00 C
 ATOM 1155 C PHE A 81151.299 0.803 -3.473 1.00 0.00 C
 ATOM 1156 O PHE A 81151.736 0.083 -4.371 1.00 0.00 O
 ATOM 1157 CB PHE A 81153.123 2.249 -2.557 1.00 0.00 C
 ATOM 1158 CG PHE A 81153.763 2.847 -1.336 1.00 0.00 C
 ATOM 1159 CD1 PHE A 81153.243 3.993 -0.757 1.00 0.00 C
 ATOM 1160 CD2 PHE A 81154.883 2.260 -0.768 1.00 0.00 C
 ATOM 1161 CE1 PHE A 81153.829 4.545 0.367 1.00 0.00 C
 ATOM 1162 CE2 PHE A 81155.473 2.808 0.355 1.00 0.00 C
 ATOM 1163 CZ PHE A 81154.946 3.952 0.923 1.00 0.00 C
 ATOM 1164 H PHE A 81153.783 -0.212 -2.096 1.00 0.00 H
 ATOM 1165 HA PHE A 81151.487 1.433 -1.443 1.00 0.00 H
 ATOM 1166 1HB PHE A 81153.910 1.868 -3.191 1.00 0.00 H
 ATOM 1167 2HB PHE A 81152.597 3.037 -3.077 1.00 0.00 H
 ATOM 1168 HD1 PHE A 81152.370 4.457 -1.190 1.00 0.00 H
 ATOM 1169 HD2 PHE A 81155.296 1.367 -1.212 1.00 0.00 H
 ATOM 1170 HE1 PHE A 81153.416 5.439 0.809 1.00 0.00 H
 ATOM 1171 HE2 PHE A 81156.346 2.343 0.788 1.00 0.00 H
 ATOM 1172 HZ PHE A 81155.407 4.381 1.802 1.00 0.00 H
 ATOM 1173 N VAL A 82150.087 1.347 -3.509 1.00 0.00 N
 ATOM 1174 CA VAL A 82149.182 1.124 -4.631 1.00 0.00 C
 ATOM 1175 C VAL A 82148.297 2.342 -4.873 1.00 0.00 C
 ATOM 1176 O VAL A 82148.200 3.229 -4.027 1.00 0.00 O
 ATOM 1177 CB VAL A 82148.288 -0.107 -4.394 1.00 0.00 C
 ATOM 1178 CG1 VAL A 82149.115 -1.382 -4.425 1.00 0.00 C

ATOM 1179 CG2 VAL A 82147.539 0.021 -3.077 1.00 0.00 C
 ATOM 1180 H VAL A 82149.794 1.912 -2.764 1.00 0.00 H
 ATOM 1181 HA VAL A 82149.780 0.945 -5.512 1.00 0.00 H
 ATOM 1182 HB VAL A 82147.561 -0.158 -5.192 1.00 0.00 H
 ATOM 1183 1HG1 VAL A 82149.562 -1.499 -5.401 1.00 0.00 H
 ATOM 1184 2HG1 VAL A 82148.478 -2.230 -4.217 1.00 0.00 H
 ATOM 1185 3HG1 VAL A 82149.893 -1.325 -3.677 1.00 0.00 H
 ATOM 1186 1HG2 VAL A 82147.408 -0.959 -2.641 1.00 0.00 H
 ATOM 1187 2HG2 VAL A 82146.572 0.469 -3.254 1.00 0.00 H
 ATOM 1188 3HG2 VAL A 82148.106 0.644 -2.400 1.00 0.00 H
 ATOM 1189 N LYS A 83147.652 2.375 -6.035 1.00 0.00 N
 ATOM 1190 CA LYS A 83146.774 3.484 -6.390 1.00 0.00 C
 ATOM 1191 C LYS A 83145.517 3.482 -5.528 1.00 0.00 C
 ATOM 1192 O LYS A 83144.750 2.518 -5.530 1.00 0.00 O
 ATOM 1193 CB LYS A 83146.392 3.406 -7.870 1.00 0.00 C
 ATOM 1194 CG LYS A 83147.588 3.405 -8.808 1.00 0.00 C
 ATOM 1195 CD LYS A 83147.168 3.152 -10.247 1.00 0.00 C
 ATOM 1196 CE LYS A 83147.976 3.993 -11.220 1.00 0.00 C
 ATOM 1197 NZ LYS A 83148.286 3.250 -12.472 1.00 0.00 N
 ATOM 1198 H LYS A 83147.770 1.637 -6.669 1.00 0.00 H
 ATOM 1199 HA LYS A 83147.313 4.403 -6.216 1.00 0.00 H
 ATOM 1200 1HB LYS A 83145.830 2.498 -8.038 1.00 0.00 H
 ATOM 1201 2HB LYS A 83145.770 4.254 -8.115 1.00 0.00 H
 ATOM 1202 1HG LYS A 83148.078 4.366 -8.751 1.00 0.00 H
 ATOM 1203 2HG LYS A 83148.274 2.630 -8.501 1.00 0.00 H
 ATOM 1204 1HD LYS A 83147.318 2.108 -10.477 1.00 0.00 H
 ATOM 1205 2HD LYS A 83146.121 3.398 -10.354 1.00 0.00 H
 ATOM 1206 1HE LYS A 83147.410 4.879 -11.469 1.00 0.00 H
 ATOM 1207 2HE LYS A 83148.902 4.282 -10.744 1.00 0.00 H
 ATOM 1208 1HZ LYS A 83149.234 3.508 -12.816 1.00 0.00 H
 ATOM 1209 2HZ LYS A 83147.589 3.481 -13.207 1.00 0.00 H

ATOM	1210	3HZ	LYS A	83148.261	2.226	-12.296	1.00	0.00	H
ATOM	1211	N	LEU A	84145.313	4.569	-4.792	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.151	4.700	-3.922	1.00	0.00	C
ATOM	1213	C	LEU A	84142.856	4.573	-4.719	1.00	0.00	C
ATOM	1214	O	LEU A	84141.863	4.038	-4.227	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.189	6.045	-3.194	1.00	0.00	C
ATOM	1216	CG	LEU A	84142.978	6.339	-2.308	1.00	0.00	C
ATOM	1217	CD1	LEU A	84143.141	5.682	-0.946	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.780	7.840	-2.158	1.00	0.00	C
ATOM	1219	H	LEU A	84145.962	5.301	-4.836	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.191	3.905	-3.193	1.00	0.00	H
ATOM	1221	1HB	LEU A	84145.075	6.071	-2.577	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.264	6.827	-3.934	1.00	0.00	H
ATOM	1223	HG	LEU A	84142.091	5.928	-2.771	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84143.630	4.727	-1.063	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84142.169	5.537	-0.497	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84143.739	6.318	-0.309	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84141.894	8.030	-1.571	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84142.667	8.287	-3.134	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84143.639	8.268	-1.663	1.00	0.00	H
ATOM	1230	N	LYS A	85142.875	5.070	-5.951	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.701	5.014	-6.815	1.00	0.00	C
ATOM	1232	C	LYS A	85141.332	3.569	-7.138	1.00	0.00	C
ATOM	1233	O	LYS A	85140.173	3.263	-7.421	1.00	0.00	O
ATOM	1234	CB	LYS A	85141.958	5.788	-8.109	1.00	0.00	C
ATOM	1235	CG	LYS A	85143.098	5.223	-8.941	1.00	0.00	C
ATOM	1236	CD	LYS A	85143.604	6.236	-9.955	1.00	0.00	C
ATOM	1237	CE	LYS A	85144.941	5.817	-10.542	1.00	0.00	C
ATOM	1238	NZ	LYS A	85145.553	6.900	-11.362	1.00	0.00	N
ATOM	1239	H	LYS A	85143.696	5.486	-6.287	1.00	0.00	H
ATOM	1240	HA	LYS A	85140.879	5.473	-6.289	1.00	0.00	H

ATOM	1241	1HB	LYS A	85141.060	5.770	-8.710	1.00	0.00	H
ATOM	1242	2HB	LYS A	85142.195	6.812	-7.862	1.00	0.00	H
ATOM	1243	1HG	LYS A	85143.910	4.952	-8.283	1.00	0.00	H
ATOM	1244	2HG	LYS A	85142.748	4.346	-9.465	1.00	0.00	H
ATOM	1245	1HD	LYS A	85142.882	6.323	-10.753	1.00	0.00	H
ATOM	1246	2HD	LYS A	85143.719	7.193	-9.466	1.00	0.00	H
ATOM	1247	1HE	LYS A	85145.613	5.567	-9.734	1.00	0.00	H
ATOM	1248	2HE	LYS A	85144.790	4.948	-11.165	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85145.891	7.666	-10.746	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85144.850	7.287	-12.023	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85146.356	6.526	-11.906	1.00	0.00	H
ATOM	1252	N	SER A	86142.322	2.682	-7.094	1.00	0.00	N
ATOM	1253	CA	SER A	86142.098	1.271	-7.381	1.00	0.00	C
ATOM	1254	C	SER A	86142.057	0.453	-6.095	1.00	0.00	C
ATOM	1255	O	SER A	86142.443	-0.716	-6.079	1.00	0.00	O
ATOM	1256	CB	SER A	86143.194	0.737	-8.305	1.00	0.00	C
ATOM	1257	OG	SER A	86143.269	1.496	-9.499	1.00	0.00	O
ATOM	1258	H	SER A	86143.225	2.984	-6.862	1.00	0.00	H
ATOM	1259	HA	SER A	86141.144	1.182	-7.881	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.146	0.792	-7.799	1.00	0.00	H
ATOM	1261	2HB	SER A	86142.980	-0.290	-8.558	1.00	0.00	H
ATOM	1262	HG	SER A	86142.385	1.639	-9.845	1.00	0.00	H
ATOM	1263	N	CYS A	87141.587	1.075	-5.018	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.496	0.404	-3.726	1.00	0.00	C
ATOM	1265	C	CYS A	87140.043	0.114	-3.366	1.00	0.00	C
ATOM	1266	O	CYS A	87139.125	0.737	-3.901	1.00	0.00	O
ATOM	1267	CB	CYS A	87142.143	1.260	-2.637	1.00	0.00	C
ATOM	1268	SG	CYS A	87143.948	1.167	-2.600	1.00	0.00	S
ATOM	1269	H	CYS A	87141.296	2.007	-5.094	1.00	0.00	H
ATOM	1270	HA	CYS A	87142.029	-0.532	-3.801	1.00	0.00	H
ATOM	1271	1HB	CYS A	87141.871	2.293	-2.792	1.00	0.00	H

ATOM 1272 2HB CYS A 87141.777 0.938 -1.673 1.00 0.00 H
 ATOM 1273 HG CYS A 87144.265 1.809 -1.959 1.00 0.00 H
 ATOM 1274 N ARG A 88139.840 -0.834 -2.458 1.00 0.00 N
 ATOM 1275 CA ARG A 88138.497 -1.205 -2.028 1.00 0.00 C
 ATOM 1276 C ARG A 88138.413 -1.271 -0.503 1.00 0.00 C
 ATOM 1277 O ARG A 88139.296 -1.826 0.151 1.00 0.00 O
 ATOM 1278 CB ARG A 88138.102 -2.555 -2.631 1.00 0.00 C
 ATOM 1279 CG ARG A 88137.308 -2.435 -3.921 1.00 0.00 C
 ATOM 1280 CD ARG A 88135.810 -2.459 -3.658 1.00 0.00 C
 ATOM 1281 NE ARG A 88135.049 -1.912 -4.778 1.00 0.00 N
 ATOM 1282 CZ ARG A 88133.789 -1.490 -4.682 1.00 0.00 C
 ATOM 1283 NH1 ARG A 88133.148 -1.550 -3.522 1.00 0.00 N
 ATOM 1284 NH2 ARG A 88133.171 -1.005 -5.749 1.00 0.00 N
 ATOM 1285 H ARG A 88140.612 -1.296 -2.068 1.00 0.00 H
 ATOM 1286 HA ARG A 88137.816 -0.449 -2.386 1.00 0.00 H
 ATOM 1287 1HB ARG A 88138.998 -3.121 -2.836 1.00 0.00 H
 ATOM 1288 2HB ARG A 88137.502 -3.096 -1.914 1.00 0.00 H
 ATOM 1289 1HG ARG A 88137.563 -1.504 -4.405 1.00 0.00 H
 ATOM 1290 2HG ARG A 88137.564 -3.262 -4.568 1.00 0.00 H
 ATOM 1291 1HD ARG A 88135.504 -3.481 -3.491 1.00 0.00 H
 ATOM 1292 2HD ARG A 88135.604 -1.873 -2.773 1.00 0.00 H
 ATOM 1293 HE ARG A 88135.498 -1.856 -5.647 1.00 0.00 H
 ATOM 1294 1HH1 ARG A 88133.608 -1.915 -2.713 1.00 0.00 H
 ATOM 1295 2HH1 ARG A 88132.203 -1.231 -3.456 1.00 0.00 H
 ATOM 1296 1HH2 ARG A 88133.649 -0.958 -6.626 1.00 0.00 H
 ATOM 1297 2HH2 ARG A 88132.225 -0.688 -5.678 1.00 0.00 H
 ATOM 1298 N PRO A 89137.344 -0.704 0.089 1.00 0.00 N
 ATOM 1299 CA PRO A 89137.157 -0.707 1.544 1.00 0.00 C
 ATOM 1300 C PRO A 89137.223 -2.113 2.132 1.00 0.00 C
 ATOM 1301 O PRO A 89136.564 -3.031 1.646 1.00 0.00 O
 ATOM 1302 CB PRO A 89135.757 -0.117 1.729 1.00 0.00 C

ATOM	1303	CG	PRO A	89135.519	0.693	0.503	1.00	0.00	C
ATOM	1304	CD	PRO A	89136.239	-0.019	-0.608	1.00	0.00	C
ATOM	1305	HA	PRO A	89137.884	-0.079	2.037	1.00	0.00	H
ATOM	1306	1HB	PRO A	89135.037	-0.916	1.822	1.00	0.00	H
ATOM	1307	2HB	PRO A	89135.737	0.498	2.617	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.461	0.740	0.294	1.00	0.00	H
ATOM	1309	2HG	PRO A	89135.922	1.686	0.635	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.584	-0.732	-1.086	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.619	0.691	-1.326	1.00	0.00	H
ATOM	1312	N	ASP A	90138.021	-2.273	3.183	1.00	0.00	N
ATOM	1313	CA	ASP A	90138.172	-3.568	3.838	1.00	0.00	C
ATOM	1314	C	ASP A	90137.378	-3.612	5.140	1.00	0.00	C
ATOM	1315	O	ASP A	90137.759	-2.992	6.133	1.00	0.00	O
ATOM	1316	CB	ASP A	90139.648	-3.854	4.116	1.00	0.00	C
ATOM	1317	CG	ASP A	90139.948	-5.339	4.174	1.00	0.00	C
ATOM	1318	OD1	ASP A	90140.366	-5.819	5.248	1.00	0.00	O
ATOM	1319	OD2	ASP A	90139.764	-6.022	3.144	1.00	0.00	O
ATOM	1320	H	ASP A	90138.520	-1.503	3.526	1.00	0.00	H
ATOM	1321	HA	ASP A	90137.787	-4.323	3.170	1.00	0.00	H
ATOM	1322	1HB	ASP A	90140.247	-3.414	3.333	1.00	0.00	H
ATOM	1323	2HB	ASP A	90139.921	-3.412	5.063	1.00	0.00	H
ATOM	1324	N	SER A	91136.274	-4.352	5.129	1.00	0.00	N
ATOM	1325	CA	SER A	91135.426	-4.478	6.310	1.00	0.00	C
ATOM	1326	C	SER A	91135.724	-5.774	7.057	1.00	0.00	C
ATOM	1327	O	SER A	91134.840	-6.355	7.688	1.00	0.00	O
ATOM	1328	CB	SER A	91133.950	-4.434	5.911	1.00	0.00	C
ATOM	1329	OG	SER A	91133.158	-3.879	6.947	1.00	0.00	O
ATOM	1330	H	SER A	91136.023	-4.823	4.308	1.00	0.00	H
ATOM	1331	HA	SER A	91135.639	-3.644	6.961	1.00	0.00	H
ATOM	1332	1HB	SER A	91133.837	-3.827	5.024	1.00	0.00	H
ATOM	1333	2HB	SER A	91133.605	-5.436	5.708	1.00	0.00	H

ATOM 1334 HG SER A 91132.243 -3.834 6.660 1.00 0.00 H
 ATOM 1335 N ARG A 92136.972 -6.223 6.981 1.00 0.00 N
 ATOM 1336 CA ARG A 92137.384 -7.451 7.650 1.00 0.00 C
 ATOM 1337 C ARG A 92137.327 -7.291 9.166 1.00 0.00 C
 ATOM 1338 O ARG A 92137.085 -8.254 9.893 1.00 0.00 O
 ATOM 1339 CB ARG A 92138.798 -7.842 7.220 1.00 0.00 C
 ATOM 1340 CG ARG A 92138.835 -8.741 5.995 1.00 0.00 C
 ATOM 1341 CD ARG A 92140.147 -9.503 5.902 1.00 0.00 C
 ATOM 1342 NE ARG A 92140.288 -10.485 6.976 1.00 0.00 N
 ATOM 1343 CZ ARG A 92139.667 -11.663 6.989 1.00 0.00 C
 ATOM 1344 NH1 ARG A 92138.865 -12.010 5.991 1.00 0.00 N
 ATOM 1345 NH2 ARG A 92139.851 -12.496 8.004 1.00 0.00 N
 ATOM 1346 H ARG A 92137.632 -5.717 6.462 1.00 0.00 H
 ATOM 1347 HA ARG A 92136.700 -8.234 7.358 1.00 0.00 H
 ATOM 1348 1HB ARG A 92139.355 -6.944 6.997 1.00 0.00 H
 ATOM 1349 2HB ARG A 92139.281 -8.361 8.035 1.00 0.00 H
 ATOM 1350 1HG ARG A 92138.022 -9.450 6.056 1.00 0.00 H
 ATOM 1351 2HG ARG A 92138.719 -8.133 5.109 1.00 0.00 H
 ATOM 1352 1HD ARG A 92140.185 -10.016 4.953 1.00 0.00 H
 ATOM 1353 2HD ARG A 92140.963 -8.798 5.962 1.00 0.00 H
 ATOM 1354 HE ARG A 92140.875 -10.253 7.725 1.00 0.00 H
 ATOM 1355 1HH1 ARG A 92138.722 -11.386 5.223 1.00 0.00 H
 ATOM 1356 2HH1 ARG A 92138.403 -12.896 6.007 1.00 0.00 H
 ATOM 1357 1HH2 ARG A 92140.455 -12.240 8.758 1.00 0.00 H
 ATOM 1358 2HH2 ARG A 92139.385 -13.381 8.014 1.00 0.00 H
 ATOM 1359 N PHE A 93137.554 -6.068 9.637 1.00 0.00 N
 ATOM 1360 CA PHE A 93137.528 -5.782 11.067 1.00 0.00 C
 ATOM 1361 C PHE A 93136.525 -4.678 11.385 1.00 0.00 C
 ATOM 1362 O PHE A 93136.707 -3.917 12.335 1.00 0.00 O
 ATOM 1363 CB PHE A 93138.921 -5.377 11.551 1.00 0.00 C
 ATOM 1364 CG PHE A 93139.888 -6.524 11.626 1.00 0.00 C

ATOM 1365 CD1 PHE A 93140.464 -6.884 12.834 1.00 0.00 C
 ATOM 1366 CD2 PHE A 93140.221 -7.243 10.489 1.00 0.00 C
 ATOM 1367 CE1 PHE A 93141.354 -7.938 12.907 1.00 0.00 C
 ATOM 1368 CE2 PHE A 93141.111 -8.298 10.555 1.00 0.00 C
 ATOM 1369 CZ PHE A 93141.677 -8.646 11.765 1.00 0.00 C
 ATOM 1370 H PHE A 93137.741 -5.341 9.007 1.00 0.00 H
 ATOM 1371 HA PHE A 93137.227 -6.684 11.579 1.00 0.00 H
 ATOM 1372 1HB PHE A 93139.330 -4.642 10.874 1.00 0.00 H
 ATOM 1373 2HB PHE A 93138.839 -4.945 12.537 1.00 0.00 H
 ATOM 1374 HD1 PHE A 93140.212 -6.330 13.727 1.00 0.00 H
 ATOM 1375 HD2 PHE A 93139.778 -6.971 9.543 1.00 0.00 H
 ATOM 1376 HE1 PHE A 93141.796 -8.208 13.854 1.00 0.00 H
 ATOM 1377 HE2 PHE A 93141.361 -8.850 9.662 1.00 0.00 H
 ATOM 1378 HZ PHE A 93142.373 -9.471 11.820 1.00 0.00 H
 ATOM 1379 N ALA A 94135.467 -4.596 10.586 1.00 0.00 N
 ATOM 1380 CA ALA A 94134.436 -3.584 10.785 1.00 0.00 C
 ATOM 1381 C ALA A 94133.274 -4.138 11.602 1.00 0.00 C
 ATOM 1382 O ALA A 94132.658 -5.136 11.227 1.00 0.00 O
 ATOM 1383 CB ALA A 94133.940 -3.064 9.444 1.00 0.00 C
 ATOM 1384 H ALA A 94135.376 -5.231 9.844 1.00 0.00 H
 ATOM 1385 HA ALA A 94134.879 -2.759 11.322 1.00 0.00 H
 ATOM 1386 1HB ALA A 94133.035 -3.584 9.169 1.00 0.00 H
 ATOM 1387 2HB ALA A 94134.696 -3.235 8.691 1.00 0.00 H
 ATOM 1388 3HB ALA A 94133.739 -2.007 9.520 1.00 0.00 H
 ATOM 1389 N SER A 95132.980 -3.485 12.721 1.00 0.00 N
 ATOM 1390 CA SER A 95131.891 -3.913 13.593 1.00 0.00 C
 ATOM 1391 C SER A 95130.740 -2.913 13.557 1.00 0.00 C
 ATOM 1392 O SER A 95130.944 -1.724 13.314 1.00 0.00 O
 ATOM 1393 CB SER A 95132.394 -4.078 15.028 1.00 0.00 C
 ATOM 1394 OG SER A 95131.383 -4.612 15.865 1.00 0.00 O
 ATOM 1395 H SER A 95133.508 -2.696 12.967 1.00 0.00 H

ATOM 1396 HA SER A 95131.535 -4.867 13.234 1.00 0.00 H
 ATOM 1397 1HB SER A 95133.240 -4.748 15.035 1.00 0.00 H
 ATOM 1398 2HB SER A 95132.695 -3.115 15.415 1.00 0.00 H
 ATOM 1399 HG SER A 95131.061 -5.436 15.493 1.00 0.00 H
 ATOM 1400 N LEU A 96129.529 -3.404 13.802 1.00 0.00 N
 ATOM 1401 CA LEU A 96128.344 -2.554 13.798 1.00 0.00 C
 ATOM 1402 C LEU A 96127.403 -2.931 14.938 1.00 0.00 C
 ATOM 1403 O LEU A 96126.670 -3.916 14.852 1.00 0.00 O
 ATOM 1404 CB LEU A 96127.616 -2.665 12.456 1.00 0.00 C
 ATOM 1405 CG LEU A 96127.763 -1.451 11.537 1.00 0.00 C
 ATOM 1406 CD1 LEU A 96129.230 -1.182 11.239 1.00 0.00 C
 ATOM 1407 CD2 LEU A 96126.985 -1.664 10.247 1.00 0.00 C
 ATOM 1408 H LEU A 96129.430 -4.361 13.989 1.00 0.00 H
 ATOM 1409 HA LEU A 96128.669 -1.534 13.938 1.00 0.00 H
 ATOM 1410 1HB LEU A 96127.996 -3.533 11.936 1.00 0.00 H
 ATOM 1411 2HB LEU A 96126.564 -2.816 12.649 1.00 0.00 H
 ATOM 1412 HG LEU A 96127.358 -0.581 12.034 1.00 0.00 H
 ATOM 1413 1HD1 LEU A 96129.616 -0.468 11.952 1.00 0.00 H
 ATOM 1414 2HD1 LEU A 96129.327 -0.782 10.241 1.00 0.00 H
 ATOM 1415 3HD1 LEU A 96129.788 -2.103 11.315 1.00 0.00 H
 ATOM 1416 1HD2 LEU A 96125.972 -1.959 10.481 1.00 0.00 H
 ATOM 1417 2HD2 LEU A 96127.460 -2.438 9.663 1.00 0.00 H
 ATOM 1418 3HD2 LEU A 96126.969 -0.743 9.681 1.00 0.00 H
 ATOM 1419 N GLN A 97127.429 -2.139 16.006 1.00 0.00 N
 ATOM 1420 CA GLN A 97126.577 -2.389 17.163 1.00 0.00 C
 ATOM 1421 C GLN A 97126.881 -3.753 17.778 1.00 0.00 C
 ATOM 1422 O GLN A 97126.251 -4.753 17.433 1.00 0.00 O
 ATOM 1423 CB GLN A 97125.102 -2.314 16.763 1.00 0.00 C
 ATOM 1424 CG GLN A 97124.743 -1.048 16.001 1.00 0.00 C
 ATOM 1425 CD GLN A 97124.686 0.175 16.897 1.00 0.00 C
 ATOM 1426 OE1 GLN A 97123.756 0.338 17.686 1.00 0.00 O

ATOM 1427 NE2 GLN A 97125.684 1.041 16.778 1.00 0.00 N
 ATOM 1428 H GLN A 97128.035 -1.369 16.015 1.00 0.00 H
 ATOM 1429 HA GLN A 97126.782 -1.623 17.896 1.00 0.00 H
 ATOM 1430 1HB GLN A 97124.867 -3.162 16.139 1.00 0.00 H
 ATOM 1431 2HB GLN A 97124.497 -2.355 17.656 1.00 0.00 H
 ATOM 1432 1HG GLN A 97125.485 -0.880 15.236 1.00 0.00 H
 ATOM 1433 2HG GLN A 97123.775 -1.184 15.540 1.00 0.00 H
 ATOM 1434 1HE2 GLN A 97126.392 0.846 16.128 1.00 0.00 H
 ATOM 1435 2HE2 GLN A 97125.673 1.841 17.345 1.00 0.00 H
 ATOM 1436 N PRO A 98127.854 -3.812 18.702 1.00 0.00 N
 ATOM 1437 CA PRO A 98128.239 -5.063 19.366 1.00 0.00 C
 ATOM 1438 C PRO A 98127.043 -5.789 19.971 1.00 0.00 C
 ATOM 1439 O PRO A 98127.044 -7.014 20.094 1.00 0.00 O
 ATOM 1440 CB PRO A 98129.197 -4.602 20.467 1.00 0.00 C
 ATOM 1441 CG PRO A 98129.755 -3.315 19.969 1.00 0.00 C
 ATOM 1442 CD PRO A 98128.656 -2.668 19.173 1.00 0.00 C
 ATOM 1443 HA PRO A 98128.755 -5.726 18.689 1.00 0.00 H
 ATOM 1444 1HB PRO A 98128.652 -4.467 21.389 1.00 0.00 H
 ATOM 1445 2HB PRO A 98129.973 -5.341 20.605 1.00 0.00 H
 ATOM 1446 1HG PRO A 98130.034 -2.688 20.803 1.00 0.00 H
 ATOM 1447 2HG PRO A 98130.611 -3.505 19.338 1.00 0.00 H
 ATOM 1448 1HD PRO A 98128.067 -2.017 19.803 1.00 0.00 H
 ATOM 1449 2HD PRO A 98129.067 -2.117 18.340 1.00 0.00 H
 ATOM 1450 N SER A 99126.021 -5.025 20.346 1.00 0.00 N
 ATOM 1451 CA SER A 99124.818 -5.596 20.940 1.00 0.00 C
 ATOM 1452 C SER A 99123.564 -4.983 20.323 1.00 0.00 C
 ATOM 1453 O SER A 99123.584 -3.845 19.855 1.00 0.00 O
 ATOM 1454 CB SER A 99124.815 -5.377 22.453 1.00 0.00 C
 ATOM 1455 OG SER A 99125.417 -6.469 23.127 1.00 0.00 O
 ATOM 1456 H SER A 99126.079 -4.054 20.222 1.00 0.00 H
 ATOM 1457 HA SER A 99124.820 -6.657 20.738 1.00 0.00 H

ATOM 1458 1HB SER A 99125.367 -4.479 22.686 1.00 0.00 H
 ATOM 1459 2HB SER A 99123.797 -5.273 22.798 1.00 0.00 H
 ATOM 1460 HG SER A 99124.734 -7.021 23.516 1.00 0.00 H
 ATOM 1461 N GLY A 100122.475 -5.744 20.327 1.00 0.00 N
 ATOM 1462 CA GLY A 100121.229 -5.258 19.766 1.00 0.00 C
 ATOM 1463 C GLY A 100120.594 -4.171 20.614 1.00 0.00 C
 ATOM 1464 O GLY A 100120.434 -3.039 20.157 1.00 0.00 O
 ATOM 1465 H GLY A 100122.518 -6.644 20.714 1.00 0.00 H
 ATOM 1466 1HA GLY A 100121.420 -4.864 18.779 1.00 0.00 H
 ATOM 1467 2HA GLY A 100120.537 -6.085 19.685 1.00 0.00 H
 ATOM 1468 N PRO A 101120.221 -4.486 21.866 1.00 0.00 N
 ATOM 1469 CA PRO A 101119.600 -3.515 22.773 1.00 0.00 C
 ATOM 1470 C PRO A 101120.582 -2.443 23.233 1.00 0.00 C
 ATOM 1471 O PRO A 101121.475 -2.709 24.038 1.00 0.00 O
 ATOM 1472 CB PRO A 101119.150 -4.372 23.959 1.00 0.00 C
 ATOM 1473 CG PRO A 101120.062 -5.549 23.942 1.00 0.00 C
 ATOM 1474 CD PRO A 101120.374 -5.812 22.495 1.00 0.00 C
 ATOM 1475 HA PRO A 101118.741 -3.043 22.319 1.00 0.00 H
 ATOM 1476 1HB PRO A 101119.249 -3.806 24.873 1.00 0.00 H
 ATOM 1477 2HB PRO A 101118.121 -4.669 23.821 1.00 0.00 H
 ATOM 1478 1HG PRO A 101120.966 -5.320 24.485 1.00 0.00 H
 ATOM 1479 2HG PRO A 101119.566 -6.403 24.379 1.00 0.00 H
 ATOM 1480 1HD PRO A 101121.386 -6.175 22.387 1.00 0.00 H
 ATOM 1481 2HD PRO A 101119.671 -6.518 22.079 1.00 0.00 H
 ATOM 1482 N SER A 102120.410 -1.230 22.718 1.00 0.00 N
 ATOM 1483 CA SER A 102121.282 -0.117 23.077 1.00 0.00 C
 ATOM 1484 C SER A 102120.786 0.576 24.341 1.00 0.00 C
 ATOM 1485 O SER A 102121.581 1.051 25.153 1.00 0.00 O
 ATOM 1486 CB SER A 102121.358 0.889 21.926 1.00 0.00 C
 ATOM 1487 OG SER A 102120.064 1.307 21.527 1.00 0.00 O
 ATOM 1488 H SER A 102119.679 -1.080 22.081 1.00 0.00 H

ATOM 1489 HA SER A 102122.268 -0.515 23.261 1.00 0.00 H
 ATOM 1490 1HB SER A 102121.918 1.755 22.245 1.00 0.00 H
 ATOM 1491 2HB SER A 102121.851 0.430 21.082 1.00 0.00 H
 ATOM 1492 HG SER A 102119.966 2.248 21.690 1.00 0.00 H
 ATOM 1493 N SER A 103119.468 0.630 24.503 1.00 0.00 N
 ATOM 1494 CA SER A 103118.867 1.265 25.670 1.00 0.00 C
 ATOM 1495 C SER A 103119.270 0.543 26.952 1.00 0.00 C
 ATOM 1496 O SER A 103118.782 -0.550 27.240 1.00 0.00 O
 ATOM 1497 CB SER A 103117.343 1.283 25.539 1.00 0.00 C
 ATOM 1498 OG SER A 103116.799 2.484 26.058 1.00 0.00 O
 ATOM 1499 H SER A 103118.886 0.234 23.821 1.00 0.00 H
 ATOM 1500 HA SER A 103119.226 2.282 25.716 1.00 0.00 H
 ATOM 1501 1HB SER A 103117.073 1.202 24.497 1.00 0.00 H
 ATOM 1502 2HB SER A 103116.927 0.448 26.083 1.00 0.00 H
 ATOM 1503 HG SER A 103116.312 2.293 26.864 1.00 0.00 H
 ATOM 1504 N GLY A 104120.165 1.160 27.717 1.00 0.00 N
 ATOM 1505 CA GLY A 104120.618 0.561 28.957 1.00 0.00 C
 ATOM 1506 C GLY A 104119.539 0.545 30.022 1.00 0.00 C
 ATOM 1507 O GLY A 104119.748 -0.103 31.070 1.00 0.00 O
 ATOM 1508 OXT GLY A 104118.485 1.179 29.809 1.00 0.00 O
 ATOM 1509 H GLY A 104120.520 2.029 27.436 1.00 0.00 H
 ATOM 1510 1HA GLY A 104120.930 -0.455 28.762 1.00 0.00 H
 ATOM 1511 2HA GLY A 104121.464 1.121 29.327 1.00 0.00 H
 TER 1512 GLY A 104
 ENDMDL

Three-Dimensional Structure Coordinate Table 2

ATOM 1 N GLY A 1105.215 7.354 -0.195 1.00 0.00 N
 ATOM 2 CA GLY A 1106.288 6.361 -0.481 1.00 0.00 C
 ATOM 3 C GLY A 1107.290 6.250 0.651 1.00 0.00 C
 ATOM 4 O GLY A 1107.077 6.795 1.734 1.00 0.00 O

ATOM 5 1H	GLY A	1105.533	8.026	0.533	1.00	0.00	H
ATOM 6 2H	GLY A	1104.360	6.869	0.147	1.00	0.00	H
ATOM 7 3H	GLY A	1104.976	7.882	-1.060	1.00	0.00	H
ATOM 8 1HA	GLY A	1105.834	5.395	-0.642	1.00	0.00	H
ATOM 9 2HA	GLY A	1106.807	6.659	-1.380	1.00	0.00	H
ATOM10 N	SER A	2108.386	5.542	0.400	1.00	0.00	N
ATOM11 CA	SER A	2109.426	5.360	1.405	1.00	0.00	C
ATOM12 C	SER A	2110.256	6.629	1.565	1.00	0.00	C
ATOM13 O	SER A	2110.259	7.496	0.691	1.00	0.00	O
ATOM14 CB	SER A	2110.332	4.187	1.026	1.00	0.00	C
ATOM15 OG	SER A	2109.867	2.977	1.597	1.00	0.00	O
ATOM16 H	SER A	2108.498	5.132	-0.484	1.00	0.00	H
ATOM17 HA	SER A	2108.942	5.140	2.346	1.00	0.00	H
ATOM18 1HB	SER A	2110.348	4.080	-0.048	1.00	0.00	H
ATOM19 2HB	SER A	2111.334	4.379	1.384	1.00	0.00	H
ATOM20 HG	SER A	2110.095	2.955	2.530	1.00	0.00	H
ATOM21 N	SER A	3110.962	6.731	2.687	1.00	0.00	N
ATOM22 CA	SER A	3111.797	7.894	2.960	1.00	0.00	C
ATOM23 C	SER A	3113.078	7.853	2.131	1.00	0.00	C
ATOM24 O	SER A	3113.500	8.866	1.573	1.00	0.00	O
ATOM25 CB	SER A	3112.142	7.961	4.450	1.00	0.00	C
ATOM26 OG	SER A	3113.199	7.072	4.769	1.00	0.00	O
ATOM27 H	SER A	3110.920	6.008	3.346	1.00	0.00	H
ATOM28 HA	SER A	3111.237	8.777	2.690	1.00	0.00	H
ATOM29 1HB	SER A	3112.447	8.967	4.702	1.00	0.00	H
ATOM30 2HB	SER A	3111.272	7.692	5.031	1.00	0.00	H
ATOM31 HG	SER A	3112.849	6.184	4.872	1.00	0.00	H
ATOM32 N	GLY A	4113.690	6.676	2.056	1.00	0.00	N
ATOM33 CA	GLY A	4114.915	6.525	1.294	1.00	0.00	C
ATOM34 C	GLY A	4116.155	6.661	2.156	1.00	0.00	C
ATOM35 O	GLY A	4116.173	7.435	3.112	1.00	0.00	O

ATOM36 H GLY A 4113.307 5.904 2.523 1.00 0.00 H
 ATOM37 1HA GLY A 4114.918 5.550 0.828 1.00 0.00 H
 ATOM38 2HA GLY A 4114.941 7.280 0.523 1.00 0.00 H
 ATOM39 N SER A 5117.194 5.905 1.817 1.00 0.00 N
 ATOM40 CA SER A 5118.444 5.943 2.567 1.00 0.00 C
 ATOM41 C SER A 5119.548 5.197 1.823 1.00 0.00 C
 ATOM42 O SER A 5119.739 3.997 2.018 1.00 0.00 O
 ATOM43 CB SER A 5118.248 5.336 3.957 1.00 0.00 C
 ATOM44 OG SER A 5117.949 3.954 3.871 1.00 0.00 O
 ATOM45 H SER A 5117.119 5.306 1.044 1.00 0.00 H
 ATOM46 HA SER A 5118.734 6.978 2.673 1.00 0.00 H
 ATOM47 1HB SER A 5119.154 5.461 4.533 1.00 0.00 H
 ATOM48 2HB SER A 5117.433 5.839 4.455 1.00 0.00 H
 ATOM49 HG SER A 5117.186 3.826 3.304 1.00 0.00 H
 ATOM50 N SER A 6120.271 5.917 0.971 1.00 0.00 N
 ATOM51 CA SER A 6121.355 5.322 0.198 1.00 0.00 C
 ATOM52 C SER A 6122.687 5.469 0.929 1.00 0.00 C
 ATOM53 O SER A 6123.365 6.489 0.805 1.00 0.00 O
 ATOM54 CB SER A 6121.443 5.975 -1.182 1.00 0.00 C
 ATOM55 OG SER A 6120.178 5.990 -1.821 1.00 0.00 O
 ATOM56 H SER A 6120.070 6.869 0.859 1.00 0.00 H
 ATOM57 HA SER A 6121.140 4.271 0.077 1.00 0.00 H
 ATOM58 1HB SER A 6121.790 6.992 -1.076 1.00 0.00 H
 ATOM59 2HB SER A 6122.137 5.420 -1.796 1.00 0.00 H
 ATOM60 HG SER A 6119.653 6.716 -1.475 1.00 0.00 H
 ATOM61 N GLY A 7123.055 4.444 1.688 1.00 0.00 N
 ATOM62 CA GLY A 7124.304 4.477 2.428 1.00 0.00 C
 ATOM63 C GLY A 7125.284 3.418 1.960 1.00 0.00 C
 ATOM64 O GLY A 7126.040 2.867 2.760 1.00 0.00 O
 ATOM65 H GLY A 7122.474 3.656 1.750 1.00 0.00 H
 ATOM66 1HA GLY A 7124.757 5.450 2.304 1.00 0.00 H

ATOM67 2HA GLY A 7124.095 4.321 3.475 1.00 0.00 H
 ATOM68 N LEU A 8125.269 3.134 0.662 1.00 0.00 N
 ATOM69 CA LEU A 8126.163 2.134 0.089 1.00 0.00 C
 ATOM70 C LEU A 8127.308 2.798 -0.668 1.00 0.00 C
 ATOM71 O LEU A 8128.424 2.279 -0.705 1.00 0.00 O
 ATOM72 CB LEU A 8125.389 1.205 -0.847 1.00 0.00 C
 ATOM73 CG LEU A 8124.503 0.173 -0.148 1.00 0.00 C
 ATOM74 CD1 LEU A 8123.307 -0.182 -1.018 1.00 0.00 C
 ATOM75 CD2 LEU A 8125.306 -1.075 0.192 1.00 0.00 C
 ATOM76 H LEU A 8124.644 3.608 0.076 1.00 0.00 H
 ATOM77 HA LEU A 8126.573 1.553 0.901 1.00 0.00 H
 ATOM78 1HB LEU A 8124.763 1.811 -1.486 1.00 0.00 H
 ATOM79 2HB LEU A 8126.099 0.676 -1.465 1.00 0.00 H
 ATOM80 HG LEU A 8124.130 0.594 0.775 1.00 0.00 H
 ATOM81 1HD1 LEU A 8122.467 -0.437 -0.390 1.00 0.00 H
 ATOM82 2HD1 LEU A 8123.557 -1.026 -1.646 1.00 0.00 H
 ATOM83 3HD1 LEU A 8123.050 0.664 -1.638 1.00 0.00 H
 ATOM84 1HD2 LEU A 8124.669 -1.943 0.118 1.00 0.00 H
 ATOM85 2HD2 LEU A 8125.689 -0.992 1.198 1.00 0.00 H
 ATOM86 3HD2 LEU A 8126.129 -1.171 -0.500 1.00 0.00 H
 ATOM87 N ALAA 9127.025 3.949 -1.271 1.00 0.00 N
 ATOM88 CA ALAA 9128.032 4.684 -2.027 1.00 0.00 C
 ATOM89 C ALAA 9128.353 6.018 -1.362 1.00 0.00 C
 ATOM90 O ALAA 9127.467 6.685 -0.828 1.00 0.00 O
 ATOM91 CB ALAA 9127.559 4.904 -3.456 1.00 0.00 C
 ATOM92 H ALAA 9126.117 4.312 -1.204 1.00 0.00 H
 ATOM93 HA ALAA 9128.930 4.083 -2.058 1.00 0.00 H
 ATOM94 1HB ALAA 9126.948 4.070 -3.766 1.00 0.00 H
 ATOM95 2HB ALAA 9128.415 4.986 -4.110 1.00 0.00 H
 ATOM96 3HB ALAA 9126.979 5.813 -3.507 1.00 0.00 H
 ATOM97 N META 10129.625 6.399 -1.399 1.00 0.00 N

ATOM98 CA META 10130.064 7.654 -0.799 1.00 0.00 C
 ATOM99 C META 10131.140 8.320 -1.656 1.00 0.00 C
 ATOM 100 O META 10132.329 8.052 -1.490 1.00 0.00 O
 ATOM 101 CB META 10130.601 7.410 0.612 1.00 0.00 C
 ATOM 102 CG META 10129.515 7.117 1.634 1.00 0.00 C
 ATOM 103 SD META 10130.052 5.956 2.905 1.00 0.00 S
 ATOM 104 CE META 10128.479 5.283 3.435 1.00 0.00 C
 ATOM 105 H META 10130.285 5.823 -1.839 1.00 0.00 H
 ATOM 106 HA META 10129.209 8.311 -0.740 1.00 0.00 H
 ATOM 107 1HB META 10131.277 6.568 0.586 1.00 0.00 H
 ATOM 108 2HB META 10131.144 8.286 0.935 1.00 0.00 H
 ATOM 109 1HG META 10129.229 8.043 2.110 1.00 0.00 H
 ATOM 110 2HG META 10128.661 6.699 1.121 1.00 0.00 H
 ATOM 111 1HE META 10127.696 6.001 3.239 1.00 0.00 H
 ATOM 112 2HE META 10128.516 5.071 4.493 1.00 0.00 H
 ATOM 113 3HE META 10128.277 4.371 2.892 1.00 0.00 H
 ATOM 114 N PRO A 11130.733 9.201 -2.588 1.00 0.00 N
 ATOM 115 CA PRO A 11131.672 9.903 -3.467 1.00 0.00 C
 ATOM 116 C PRO A 11132.708 10.710 -2.687 1.00 0.00 C
 ATOM 117 O PRO A 11133.901 10.639 -2.976 1.00 0.00 O
 ATOM 118 CB PRO A 11130.781 10.836 -4.295 1.00 0.00 C
 ATOM 119 CG PRO A 11129.406 10.270 -4.185 1.00 0.00 C
 ATOM 120 CD PRO A 11129.335 9.581 -2.851 1.00 0.00 C
 ATOM 121 HA PRO A 11132.181 9.214 -4.125 1.00 0.00 H
 ATOM 122 1HB PRO A 11130.831 11.836 -3.892 1.00 0.00 H
 ATOM 123 2HB PRO A 11131.120 10.841 -5.321 1.00 0.00 H
 ATOM 124 1HG PRO A 11128.680 11.066 -4.229 1.00 0.00 H
 ATOM 125 2HG PRO A 11129.236 9.561 -4.981 1.00 0.00 H
 ATOM 126 1HD PRO A 11128.971 10.260 -2.095 1.00 0.00 H
 ATOM 127 2HD PRO A 11128.704 8.707 -2.911 1.00 0.00 H
 ATOM 128 N PRO A 12132.269 11.487 -1.678 1.00 0.00 N

ATOM	129	CA	PRO A	12133.179	12.297	-0.861	1.00	0.00	C
ATOM	130	C	PRO A	12134.284	11.455	-0.232	1.00	0.00	C
ATOM	131	O	PRO A	12135.340	11.970	0.133	1.00	0.00	O
ATOM	132	CB	PRO A	12132.272	12.882	0.225	1.00	0.00	C
ATOM	133	CG	PRO A	12130.903	12.847	-0.360	1.00	0.00	C
ATOM	134	CD	PRO A	12130.866	11.636	-1.249	1.00	0.00	C
ATOM	135	HA	PRO A	12133.622	13.096	-1.437	1.00	0.00	H
ATOM	136	1HB	PRO A	12132.336	12.276	1.117	1.00	0.00	H
ATOM	137	2HB	PRO A	12132.579	13.893	0.447	1.00	0.00	H
ATOM	138	1HG	PRO A	12130.170	12.758	0.426	1.00	0.00	H
ATOM	139	2HG	PRO A	12130.728	13.741	-0.940	1.00	0.00	H
ATOM	140	1HD	PRO A	12130.539	10.770	-0.691	1.00	0.00	H
ATOM	141	2HD	PRO A	12130.219	11.809	-2.094	1.00	0.00	H
ATOM	142	N	GLY A	13134.030	10.155	-0.108	1.00	0.00	N
ATOM	143	CA	GLY A	13135.012	9.261	0.477	1.00	0.00	C
ATOM	144	C	GLY A	13135.208	7.999	-0.339	1.00	0.00	C
ATOM	145	O	GLY A	13135.145	6.891	0.193	1.00	0.00	O
ATOM	146	H	GLY A	13133.170	9.800	-0.417	1.00	0.00	H
ATOM	147	1HA	GLY A	13135.957	9.779	0.552	1.00	0.00	H
ATOM	148	2HA	GLY A	13134.686	8.986	1.470	1.00	0.00	H
ATOM	149	N	ASN A	14135.447	8.169	-1.638	1.00	0.00	N
ATOM	150	CA	ASN A	14135.654	7.038	-2.536	1.00	0.00	C
ATOM	151	C	ASN A	14134.405	6.163	-2.612	1.00	0.00	C
ATOM	152	O	ASN A	14133.628	6.256	-3.562	1.00	0.00	O
ATOM	153	CB	ASN A	14136.854	6.205	-2.078	1.00	0.00	C
ATOM	154	CG	ASN A	14138.169	6.936	-2.265	1.00	0.00	C
ATOM	155	OD1	ASN A	14138.694	7.023	-3.375	1.00	0.00	O
ATOM	156	ND2	ASN A	14138.711	7.466	-1.173	1.00	0.00	N
ATOM	157	H	ASN A	14135.485	9.078	-2.000	1.00	0.00	H
ATOM	158	HA	ASN A	14135.858	7.433	-3.520	1.00	0.00	H
ATOM	159	1HB	ASN A	14136.742	5.965	-1.032	1.00	0.00	H

ATOM	160	2HB	ASN A	14136.888	5.290	-2.652	1.00	0.00	H
ATOM	161	1HD2	ASN A	14138.237	7.357	-0.322	1.00	0.00	H
ATOM	162	2HD2	ASN A	14139.561	7.945	-1.264	1.00	0.00	H
ATOM	163	N	SER A	15134.219	5.312	-1.607	1.00	0.00	N
ATOM	164	CA	SER A	15133.065	4.422	-1.564	1.00	0.00	C
ATOM	165	C	SER A	15132.542	4.276	-0.139	1.00	0.00	C
ATOM	166	O	SER A	15131.340	4.379	0.107	1.00	0.00	O
ATOM	167	CB	SER A	15133.432	3.048	-2.127	1.00	0.00	C
ATOM	168	OG	SER A	15132.293	2.391	-2.653	1.00	0.00	O
ATOM	169	H	SER A	15134.872	5.282	-0.878	1.00	0.00	H
ATOM	170	HA	SER A	15132.289	4.856	-2.176	1.00	0.00	H
ATOM	171	1HB	SER A	15134.159	3.167	-2.917	1.00	0.00	H
ATOM	172	2HB	SER A	15133.853	2.439	-1.340	1.00	0.00	H
ATOM	173	HG	SER A	15131.783	3.007	-3.183	1.00	0.00	H
ATOM	174	N	HIS A	16133.453	4.036	0.799	1.00	0.00	N
ATOM	175	CA	HIS A	16133.084	3.876	2.201	1.00	0.00	C
ATOM	176	C	HIS A	16133.923	4.787	3.092	1.00	0.00	C
ATOM	177	O	HIS A	16133.400	5.454	3.984	1.00	0.00	O
ATOM	178	CB	HIS A	16133.259	2.420	2.633	1.00	0.00	C
ATOM	179	CG	HIS A	16132.025	1.591	2.457	1.00	0.00	C
ATOM	180	ND1	HIS A	16131.474	0.835	3.472	1.00	0.00	N
ATOM	181	CD2	HIS A	16131.232	1.401	1.377	1.00	0.00	C
ATOM	182	CE1	HIS A	16130.397	0.216	3.023	1.00	0.00	C
ATOM	183	NE2	HIS A	16130.227	0.543	1.755	1.00	0.00	N
ATOM	184	H	HIS A	16134.396	3.965	0.542	1.00	0.00	H
ATOM	185	HA	HIS A	16132.045	4.150	2.304	1.00	0.00	H
ATOM	186	1HB	HIS A	16134.047	1.970	2.047	1.00	0.00	H
ATOM	187	2HB	HIS A	16133.534	2.391	3.678	1.00	0.00	H
ATOM	188	HD1	HIS A	16131.822	0.763	4.385	1.00	0.00	H
ATOM	189	HD2	HIS A	16131.363	1.841	0.399	1.00	0.00	H
ATOM	190	HE1	HIS A	16129.763	-0.444	3.596	1.00	0.00	H

ATOM	191	HE2	HIS A	16129.457	0.291	1.205	1.00	0.00	H
ATOM	192	N	GLY A	17135.229	4.809	2.843	1.00	0.00	N
ATOM	193	CA	GLY A	17136.120	5.641	3.630	1.00	0.00	C
ATOM	194	C	GLY A	17137.532	5.092	3.679	1.00	0.00	C
ATOM	195	O	GLY A	17138.032	4.742	4.748	1.00	0.00	O
ATOM	196	H	GLY A	17135.589	4.257	2.119	1.00	0.00	H
ATOM	197	1HA	GLY A	17136.145	6.631	3.200	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.736	5.707	4.637	1.00	0.00	H
ATOM	199	N	LEU A	18138.175	5.015	2.519	1.00	0.00	N
ATOM	200	CA	LEU A	18139.539	4.503	2.434	1.00	0.00	C
ATOM	201	C	LEU A	18140.547	5.574	2.836	1.00	0.00	C
ATOM	202	O	LEU A	18140.918	6.426	2.029	1.00	0.00	O
ATOM	203	CB	LEU A	18139.833	4.014	1.015	1.00	0.00	C
ATOM	204	CG	LEU A	18138.730	3.165	0.380	1.00	0.00	C
ATOM	205	CD1	LEU A	18138.853	3.178	-1.136	1.00	0.00	C
ATOM	206	CD2	LEU A	18138.786	1.740	0.909	1.00	0.00	C
ATOM	207	H	LEU A	18137.723	5.308	1.701	1.00	0.00	H
ATOM	208	HA	LEU A	18139.623	3.672	3.116	1.00	0.00	H
ATOM	209	1HB	LEU A	18140.002	4.877	0.387	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.739	3.426	1.040	1.00	0.00	H
ATOM	211	HG	LEU A	18137.769	3.583	0.641	1.00	0.00	H
ATOM	212	1HD1	LEU A	18139.875	2.973	-1.416	1.00	0.00	H
ATOM	213	2HD1	LEU A	18138.564	4.149	-1.512	1.00	0.00	H
ATOM	214	3HD1	LEU A	18138.205	2.423	-1.556	1.00	0.00	H
ATOM	215	1HD2	LEU A	18137.874	1.224	0.648	1.00	0.00	H
ATOM	216	2HD2	LEU A	18138.895	1.758	1.983	1.00	0.00	H
ATOM	217	3HD2	LEU A	18139.629	1.226	0.470	1.00	0.00	H
ATOM	218	N	GLU A	19140.988	5.523	4.088	1.00	0.00	N
ATOM	219	CA	GLU A	19141.956	6.488	4.598	1.00	0.00	C
ATOM	220	C	GLU A	19143.006	5.799	5.464	1.00	0.00	C
ATOM	221	O	GLU A	19142.962	4.585	5.662	1.00	0.00	O

ATOM	222	CB	GLU A	19141.246	7.576	5.405	1.00	0.00	C
ATOM	223	CG	GLU A	19140.290	7.030	6.453	1.00	0.00	C
ATOM	224	CD	GLU A	19140.046	8.008	7.586	1.00	0.00	C
ATOM	225	OE1	GLU A	19139.639	7.561	8.679	1.00	0.00	O
ATOM	226	OE2	GLU A	19140.261	9.220	7.380	1.00	0.00	O
ATOM	227	H	GLU A	19140.656	4.819	4.684	1.00	0.00	H
ATOM	228	HA	GLU A	19142.447	6.944	3.751	1.00	0.00	H
ATOM	229	1HB	GLU A	19141.989	8.180	5.907	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.683	8.202	4.728	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.345	6.807	5.981	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.708	6.122	6.864	1.00	0.00	H
ATOM	233	N	VAL A	20143.949	6.582	5.978	1.00	0.00	N
ATOM	234	CA	VAL A	20145.009	6.047	6.822	1.00	0.00	C
ATOM	235	C	VAL A	20144.435	5.407	8.082	1.00	0.00	C
ATOM	236	O	VAL A	20143.542	5.963	8.722	1.00	0.00	O
ATOM	237	CB	VAL A	20146.013	7.144	7.229	1.00	0.00	C
ATOM	238	CG1	VAL A	20147.191	6.540	7.979	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.489	7.914	6.004	1.00	0.00	C
ATOM	240	H	VAL A	20143.931	7.543	5.783	1.00	0.00	H
ATOM	241	HA	VAL A	20145.539	5.294	6.257	1.00	0.00	H
ATOM	242	HB	VAL A	20145.512	7.835	7.889	1.00	0.00	H
ATOM	243	1HG1	VAL A	20147.488	5.618	7.501	1.00	0.00	H
ATOM	244	2HG1	VAL A	20146.903	6.341	9.000	1.00	0.00	H
ATOM	245	3HG1	VAL A	20148.019	7.235	7.967	1.00	0.00	H
ATOM	246	1HG2	VAL A	20147.486	7.592	5.743	1.00	0.00	H
ATOM	247	2HG2	VAL A	20146.498	8.971	6.226	1.00	0.00	H
ATOM	248	3HG2	VAL A	20145.821	7.726	5.177	1.00	0.00	H
ATOM	249	N	GLY A	21144.954	4.234	8.432	1.00	0.00	N
ATOM	250	CA	GLY A	21144.482	3.538	9.615	1.00	0.00	C
ATOM	251	C	GLY A	21143.450	2.476	9.287	1.00	0.00	C
ATOM	252	O	GLY A	21143.375	1.447	9.959	1.00	0.00	O

ATOM	253	H	GLY A	21145.665	3.840	7.885	1.00	0.00	H
ATOM	254	1HA	GLY A	21145.323	3.069	10.104	1.00	0.00	H
ATOM	255	2HA	GLY A	21144.039	4.256	10.290	1.00	0.00	H
ATOM	256	N	SER A	22142.655	2.725	8.253	1.00	0.00	N
ATOM	257	CA	SER A	22141.623	1.781	7.837	1.00	0.00	C
ATOM	258	C	SER A	22142.196	0.728	6.895	1.00	0.00	C
ATOM	259	O	SER A	22143.138	0.996	6.147	1.00	0.00	O
ATOM	260	CB	SER A	22140.471	2.521	7.154	1.00	0.00	C
ATOM	261	OG	SER A	22140.308	3.821	7.694	1.00	0.00	O
ATOM	262	H	SER A	22142.764	3.562	7.756	1.00	0.00	H
ATOM	263	HA	SER A	22141.249	1.289	8.722	1.00	0.00	H
ATOM	264	1HB	SER A	22140.678	2.607	6.098	1.00	0.00	H
ATOM	265	2HB	SER A	22139.556	1.967	7.298	1.00	0.00	H
ATOM	266	HG	SER A	22140.349	3.777	8.653	1.00	0.00	H
ATOM	267	N	LEU A	23141.624	-0.470	6.936	1.00	0.00	N
ATOM	268	CA	LEU A	23142.078	-1.564	6.086	1.00	0.00	C
ATOM	269	C	LEU A	23141.426	-1.492	4.709	1.00	0.00	C
ATOM	270	O	LEU A	23140.229	-1.231	4.590	1.00	0.00	O
ATOM	271	CB	LEU A	23141.763	-2.911	6.740	1.00	0.00	C
ATOM	272	CG	LEU A	23142.577	-3.225	7.997	1.00	0.00	C
ATOM	273	CD1	LEU A	23141.779	-4.108	8.943	1.00	0.00	C
ATOM	274	CD2	LEU A	23143.893	-3.892	7.624	1.00	0.00	C
ATOM	275	H	LEU A	23140.877	-0.622	7.552	1.00	0.00	H
ATOM	276	HA	LEU A	23143.148	-1.472	5.970	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.716	-2.923	7.003	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.945	-3.691	6.017	1.00	0.00	H
ATOM	279	HG	LEU A	23142.803	-2.303	8.512	1.00	0.00	H
ATOM	280	1HD1	LEU A	23141.062	-4.686	8.378	1.00	0.00	H
ATOM	281	2HD1	LEU A	23141.259	-3.490	9.659	1.00	0.00	H
ATOM	282	3HD1	LEU A	23142.449	-4.777	9.464	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.706	-4.908	7.309	1.00	0.00	H

ATOM	284	2HD2	LEU A	23144.550	-3.897	8.481	1.00	0.00	H
ATOM	285	3HD2	LEU A	23144.359	-3.345	6.818	1.00	0.00	H
ATOM	286	N	ALAA	24142.222	-1.725	3.670	1.00	0.00	N
ATOM	287	CA	ALAA	24141.724	-1.686	2.301	1.00	0.00	C
ATOM	288	C	ALAA	24142.324	-2.812	1.466	1.00	0.00	C
ATOM	289	O	ALAA	24143.420	-3.294	1.751	1.00	0.00	O
ATOM	290	CB	ALAA	24142.028	-0.337	1.667	1.00	0.00	C
ATOM	291	H	ALAA	24143.168	-1.928	3.829	1.00	0.00	H
ATOM	292	HA	ALAA	24140.651	-1.808	2.334	1.00	0.00	H
ATOM	293	1HB	ALAA	24141.196	0.333	1.830	1.00	0.00	H
ATOM	294	2HB	ALAA	24142.184	-0.464	0.606	1.00	0.00	H
ATOM	295	3HB	ALAA	24142.919	0.079	2.115	1.00	0.00	H
ATOM	296	N	GLU A	25141.598	-3.227	0.433	1.00	0.00	N
ATOM	297	CA	GLU A	25142.059	-4.299	-0.445	1.00	0.00	C
ATOM	298	C	GLU A	25142.225	-3.797	-1.876	1.00	0.00	C
ATOM	299	O	GLU A	25141.447	-2.968	-2.348	1.00	0.00	O
ATOM	300	CB	GLU A	25141.075	-5.470	-0.414	1.00	0.00	C
ATOM	301	CG	GLU A	25141.514	-6.654	-1.260	1.00	0.00	C
ATOM	302	CD	GLU A	25140.767	-6.737	-2.578	1.00	0.00	C
ATOM	303	OE1	GLU A	25140.490	-5.674	-3.170	1.00	0.00	O
ATOM	304	OE2	GLU A	25140.461	-7.865	-3.017	1.00	0.00	O
ATOM	305	H	GLU A	25140.732	-2.805	0.256	1.00	0.00	H
ATOM	306	HA	GLU A	25143.017	-4.636	-0.081	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.965	-5.805	0.607	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.117	-5.130	-0.778	1.00	0.00	H
ATOM	309	1HG	GLU A	25142.569	-6.561	-1.469	1.00	0.00	H
ATOM	310	2HG	GLU A	25141.335	-7.563	-0.704	1.00	0.00	H
ATOM	311	N	VAL A	26143.244	-4.305	-2.560	1.00	0.00	N
ATOM	312	CA	VAL A	26143.513	-3.909	-3.937	1.00	0.00	C
ATOM	313	C	VAL A	26142.949	-4.926	-4.922	1.00	0.00	C
ATOM	314	O	VAL A	26142.719	-6.084	-4.571	1.00	0.00	O

ATOM	315	CB	VAL A	26145.024	-3.751	-4.191	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.275	-3.136	-5.559	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.665	-2.911	-3.097	1.00	0.00	C
ATOM	318	H	VAL A	26143.830	-4.962	-2.129	1.00	0.00	H
ATOM	319	HA	VAL A	26143.039	-2.953	-4.109	1.00	0.00	H
ATOM	320	HB	VAL A	26145.477	-4.731	-4.173	1.00	0.00	H
ATOM	321	1HG1	VAL A	26146.222	-2.616	-5.553	1.00	0.00	H
ATOM	322	2HG1	VAL A	26144.484	-2.439	-5.792	1.00	0.00	H
ATOM	323	3HG1	VAL A	26145.299	-3.917	-6.305	1.00	0.00	H
ATOM	324	1HG2	VAL A	26145.381	-1.876	-3.223	1.00	0.00	H
ATOM	325	2HG2	VAL A	26146.740	-2.998	-3.157	1.00	0.00	H
ATOM	326	3HG2	VAL A	26145.330	-3.260	-2.131	1.00	0.00	H
ATOM	327	N	LYS A	27142.727	-4.487	-6.157	1.00	0.00	N
ATOM	328	CA	LYS A	27142.188	-5.360	-7.194	1.00	0.00	C
ATOM	329	C	LYS A	27143.310	-5.966	-8.031	1.00	0.00	C
ATOM	330	O	LYS A	27143.259	-5.951	-9.262	1.00	0.00	O
ATOM	331	CB	LYS A	27141.223	-4.583	-8.092	1.00	0.00	C
ATOM	332	CG	LYS A	27139.924	-4.202	-7.403	1.00	0.00	C
ATOM	333	CD	LYS A	27139.048	-5.419	-7.154	1.00	0.00	C
ATOM	334	CE	LYS A	27137.646	-5.018	-6.724	1.00	0.00	C
ATOM	335	NZ	LYS A	27137.102	-5.932	-5.682	1.00	0.00	N
ATOM	336	H	LYS A	27142.930	-3.554	-6.376	1.00	0.00	H
ATOM	337	HA	LYS A	27141.648	-6.158	-6.706	1.00	0.00	H
ATOM	338	1HB	LYS A	27141.710	-3.677	-8.424	1.00	0.00	H
ATOM	339	2HB	LYS A	27140.985	-5.190	-8.954	1.00	0.00	H
ATOM	340	1HG	LYS A	27140.152	-3.735	-6.457	1.00	0.00	H
ATOM	341	2HG	LYS A	27139.387	-3.504	-8.030	1.00	0.00	H
ATOM	342	1HD	LYS A	27138.983	-5.995	-8.065	1.00	0.00	H
ATOM	343	2HD	LYS A	27139.496	-6.019	-6.376	1.00	0.00	H
ATOM	344	1HE	LYS A	27137.678	-4.014	-6.327	1.00	0.00	H
ATOM	345	2HE	LYS A	27136.998	-5.043	-7.587	1.00	0.00	H

ATOM	346	1HZ	LYS A	27136.733	-6.799	-6.124	1.00	0.00	H
ATOM	347	2HZ	LYS A	27136.331	-5.466	-5.163	1.00	0.00	H
ATOM	348	3HZ	LYS A	27137.851	-6.192	-5.007	1.00	0.00	H
ATOM	349	N	GLU A	28144.323	-6.501	-7.357	1.00	0.00	N
ATOM	350	CA	GLU A	28145.457	-7.112	-8.038	1.00	0.00	C
ATOM	351	C	GLU A	28145.269	-8.622	-8.160	1.00	0.00	C
ATOM	352	O	GLU A	28144.303	-9.181	-7.640	1.00	0.00	O
ATOM	353	CB	GLU A	28146.756	-6.806	-7.288	1.00	0.00	C
ATOM	354	CG	GLU A	28147.863	-6.272	-8.182	1.00	0.00	C
ATOM	355	CD	GLU A	28149.224	-6.837	-7.824	1.00	0.00	C
ATOM	356	OE1	GLU A	28149.635	-7.835	-8.452	1.00	0.00	O
ATOM	357	OE2	GLU A	28149.878	-6.281	-6.917	1.00	0.00	O
ATOM	358	H	GLU A	28144.307	-6.483	-6.377	1.00	0.00	H
ATOM	359	HA	GLU A	28145.516	-6.688	-9.029	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.552	-6.068	-6.526	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.110	-7.711	-6.814	1.00	0.00	H
ATOM	362	1HG	GLU A	28147.640	-6.533	-9.205	1.00	0.00	H
ATOM	363	2HG	GLU A	28147.899	-5.197	-8.085	1.00	0.00	H
ATOM	364	N	ASN A	29146.199	-9.275	-8.850	1.00	0.00	N
ATOM	365	CA	ASN A	29146.136	-10.719	-9.040	1.00	0.00	C
ATOM	366	C	ASN A	29146.156	-11.446	-7.697	1.00	0.00	C
ATOM	367	O	ASN A	29145.239	-12.204	-7.381	1.00	0.00	O
ATOM	368	CB	ASN A	29147.306	-11.191	-9.907	1.00	0.00	C
ATOM	369	CG	ASN A	29146.930	-11.306	-11.371	1.00	0.00	C
ATOM	370	OD1	ASN A	29146.786	-12.407	-11.903	1.00	0.00	O
ATOM	371	ND2	ASN A	29146.767	-10.165	-12.032	1.00	0.00	N
ATOM	372	H	ASN A	29146.944	-8.773	-9.240	1.00	0.00	H
ATOM	373	HA	ASN A	29145.211	-10.947	-9.546	1.00	0.00	H
ATOM	374	1HB	ASN A	29148.119	-10.486	-9.819	1.00	0.00	H
ATOM	375	2HB	ASN A	29147.635	-12.160	-9.561	1.00	0.00	H
ATOM	376	1HD2	ASN A	29146.898	-9.325	-11.543	1.00	0.00	H

ATOM 377 2HD2 ASN A 29146.524 -10.210 -12.979 1.00 0.00 H
 ATOM 378 N PRO A 30147.206 -11.226 -6.887 1.00 0.00 N
 ATOM 379 CA PRO A 30147.337 -11.863 -5.575 1.00 0.00 C
 ATOM 380 C PRO A 30146.420 -11.233 -4.529 1.00 0.00 C
 ATOM 381 O PRO A 30146.641 -10.098 -4.105 1.00 0.00 O
 ATOM 382 CB PRO A 30148.802 -11.621 -5.217 1.00 0.00 C
 ATOM 383 CG PRO A 30149.156 -10.354 -5.917 1.00 0.00 C
 ATOM 384 CD PRO A 30148.346 -10.336 -7.187 1.00 0.00 C
 ATOM 385 HA PRO A 30147.149 -12.925 -5.631 1.00 0.00 H
 ATOM 386 1HB PRO A 30148.902 -11.522 -4.145 1.00 0.00 H
 ATOM 387 2HB PRO A 30149.404 -12.446 -5.567 1.00 0.00 H
 ATOM 388 1HG PRO A 30148.897 -9.508 -5.296 1.00 0.00 H
 ATOM 389 2HG PRO A 30150.211 -10.344 -6.145 1.00 0.00 H
 ATOM 390 1HD PRO A 30148.006 -9.335 -7.401 1.00 0.00 H
 ATOM 391 2HD PRO A 30148.927 -10.721 -8.009 1.00 0.00 H
 ATOM 392 N PRO A 31145.373 -11.959 -4.095 1.00 0.00 N
 ATOM 393 CA PRO A 31144.428 -11.455 -3.094 1.00 0.00 C
 ATOM 394 C PRO A 31145.065 -11.310 -1.717 1.00 0.00 C
 ATOM 395 O PRO A 31144.943 -12.193 -0.869 1.00 0.00 O
 ATOM 396 CB PRO A 31143.331 -12.523 -3.065 1.00 0.00 C
 ATOM 397 CG PRO A 31143.999 -13.765 -3.541 1.00 0.00 C
 ATOM 398 CD PRO A 31145.028 -13.322 -4.543 1.00 0.00 C
 ATOM 399 HA PRO A 31144.003 -10.507 -3.393 1.00 0.00 H
 ATOM 400 1HB PRO A 31142.960 -12.634 -2.057 1.00 0.00 H
 ATOM 401 2HB PRO A 31142.524 -12.233 -3.721 1.00 0.00 H
 ATOM 402 1HG PRO A 31144.474 -14.268 -2.712 1.00 0.00 H
 ATOM 403 2HG PRO A 31143.276 -14.415 -4.011 1.00 0.00 H
 ATOM 404 1HD PRO A 31145.892 -13.969 -4.508 1.00 0.00 H
 ATOM 405 2HD PRO A 31144.607 -13.306 -5.536 1.00 0.00 H
 ATOM 406 N PHE A 32145.746 -10.189 -1.501 1.00 0.00 N
 ATOM 407 CA PHE A 32146.404 -9.928 -0.226 1.00 0.00 C

ATOM	408	C	PHE A	32145.573	-8.975	0.628	1.00	0.00	C
ATOM	409	O	PHE A	32144.568	-8.432	0.172	1.00	0.00	O
ATOM	410	CB	PHE A	32147.798	-9.342	-0.457	1.00	0.00	C
ATOM	411	CG	PHE A	32147.825	-8.245	-1.484	1.00	0.00	C
ATOM	412	CD1	PHE A	32147.160	-7.051	-1.259	1.00	0.00	C
ATOM	413	CD2	PHE A	32148.516	-8.409	-2.674	1.00	0.00	C
ATOM	414	CE1	PHE A	32147.184	-6.040	-2.201	1.00	0.00	C
ATOM	415	CE2	PHE A	32148.543	-7.402	-3.620	1.00	0.00	C
ATOM	416	CZ	PHE A	32147.875	-6.216	-3.383	1.00	0.00	C
ATOM	417	H	PHE A	32145.807	-9.522	-2.217	1.00	0.00	H
ATOM	418	HA	PHE A	32146.501	-10.868	0.295	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.168	-8.935	0.471	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.460	-10.127	-0.791	1.00	0.00	H
ATOM	421	HD1	PHE A	32146.618	-6.912	-0.335	1.00	0.00	H
ATOM	422	HD2	PHE A	32149.038	-9.336	-2.860	1.00	0.00	H
ATOM	423	HE1	PHE A	32146.660	-5.114	-2.014	1.00	0.00	H
ATOM	424	HE2	PHE A	32149.085	-7.543	-4.543	1.00	0.00	H
ATOM	425	HZ	PHE A	32147.895	-5.428	-4.122	1.00	0.00	H
ATOM	426	N	TYR A	33146.003	-8.777	1.870	1.00	0.00	N
ATOM	427	CA	TYR A	33145.297	-7.889	2.789	1.00	0.00	C
ATOM	428	C	TYR A	33146.273	-6.965	3.508	1.00	0.00	C
ATOM	429	O	TYR A	33147.259	-7.417	4.092	1.00	0.00	O
ATOM	430	CB	TYR A	33144.502	-8.706	3.809	1.00	0.00	C
ATOM	431	CG	TYR A	33143.206	-9.261	3.263	1.00	0.00	C
ATOM	432	CD1	TYR A	33142.351	-8.466	2.509	1.00	0.00	C
ATOM	433	CD2	TYR A	33142.838	-10.579	3.501	1.00	0.00	C
ATOM	434	CE1	TYR A	33141.165	-8.970	2.008	1.00	0.00	C
ATOM	435	CE2	TYR A	33141.655	-11.090	3.002	1.00	0.00	C
ATOM	436	CZ	TYR A	33140.822	-10.282	2.257	1.00	0.00	C
ATOM	437	OH	TYR A	33139.643	-10.787	1.759	1.00	0.00	O
ATOM	438	H	TYR A	33146.811	-9.238	2.178	1.00	0.00	H

ATOM	439	HA	TYR A	33144.613	-7.289	2.208	1.00	0.00	H
ATOM	440	1HB	TYR A	33145.104	-9.537	4.143	1.00	0.00	H
ATOM	441	2HB	TYR A	33144.264	-8.077	4.655	1.00	0.00	H
ATOM	442	HD1	TYR A	33142.623	-7.439	2.316	1.00	0.00	H
ATOM	443	HD2	TYR A	33143.492	-11.209	4.086	1.00	0.00	H
ATOM	444	HE1	TYR A	33140.515	-8.336	1.424	1.00	0.00	H
ATOM	445	HE2	TYR A	33141.386	-12.117	3.198	1.00	0.00	H
ATOM	446	HH	TYR A	33139.504	-10.457	0.869	1.00	0.00	H
ATOM	447	N	GLY A	34145.993	-5.666	3.463	1.00	0.00	N
ATOM	448	CA	GLY A	34146.856	-4.698	4.115	1.00	0.00	C
ATOM	449	C	GLY A	34146.086	-3.512	4.663	1.00	0.00	C
ATOM	450	O	GLY A	34144.877	-3.403	4.464	1.00	0.00	O
ATOM	451	H	GLY A	34145.194	-5.363	2.983	1.00	0.00	H
ATOM	452	1HA	GLY A	34147.374	-5.184	4.928	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.583	-4.342	3.400	1.00	0.00	H
ATOM	454	N	VAL A	35146.789	-2.622	5.357	1.00	0.00	N
ATOM	455	CA	VAL A	35146.165	-1.439	5.937	1.00	0.00	C
ATOM	456	C	VAL A	35146.791	-0.162	5.382	1.00	0.00	C
ATOM	457	O	VAL A	35147.999	-0.097	5.159	1.00	0.00	O
ATOM	458	CB	VAL A	35146.287	-1.437	7.474	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.746	-1.405	7.899	1.00	0.00	C
ATOM	460	CG2	VAL A	35145.523	-0.263	8.071	1.00	0.00	C
ATOM	461	H	VAL A	35147.751	-2.766	5.482	1.00	0.00	H
ATOM	462	HA	VAL A	35145.116	-1.455	5.679	1.00	0.00	H
ATOM	463	HB	VAL A	35145.847	-2.350	7.849	1.00	0.00	H
ATOM	464	1HG1	VAL A	35148.023	-0.395	8.165	1.00	0.00	H
ATOM	465	2HG1	VAL A	35148.367	-1.745	7.084	1.00	0.00	H
ATOM	466	3HG1	VAL A	35147.888	-2.052	8.752	1.00	0.00	H
ATOM	467	1HG2	VAL A	35144.502	-0.284	7.721	1.00	0.00	H
ATOM	468	2HG2	VAL A	35145.989	0.662	7.765	1.00	0.00	H
ATOM	469	3HG2	VAL A	35145.537	-0.335	9.148	1.00	0.00	H

ATOM	470	N	ILE A	36145.958	0.852	5.164	1.00	0.00	N
ATOM	471	CA	ILE A	36146.430	2.126	4.637	1.00	0.00	C
ATOM	472	C	ILE A	36147.393	2.798	5.611	1.00	0.00	C
ATOM	473	O	ILE A	36147.154	2.821	6.819	1.00	0.00	O
ATOM	474	CB	ILE A	36145.259	3.085	4.344	1.00	0.00	C
ATOM	475	CG1	ILE A	36144.203	2.391	3.480	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.765	4.346	3.658	1.00	0.00	C
ATOM	477	CD1	ILE A	36143.021	3.272	3.144	1.00	0.00	C
ATOM	478	H	ILE A	36145.006	0.739	5.363	1.00	0.00	H
ATOM	479	HA	ILE A	36146.950	1.932	3.710	1.00	0.00	H
ATOM	480	HB	ILE A	36144.813	3.371	5.284	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.657	2.077	2.552	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.832	1.522	4.005	1.00	0.00	H
ATOM	483	1HG2	ILE A	36144.985	5.093	3.655	1.00	0.00	H
ATOM	484	2HG2	ILE A	36146.045	4.115	2.640	1.00	0.00	H
ATOM	485	3HG2	ILE A	36146.625	4.726	4.190	1.00	0.00	H
ATOM	486	1HD1	ILE A	36143.302	4.309	3.253	1.00	0.00	H
ATOM	487	2HD1	ILE A	36142.203	3.047	3.812	1.00	0.00	H
ATOM	488	3HD1	ILE A	36142.713	3.089	2.125	1.00	0.00	H
ATOM	489	N	ARG A	37148.482	3.342	5.078	1.00	0.00	N
ATOM	490	CA	ARG A	37149.482	4.013	5.901	1.00	0.00	C
ATOM	491	C	ARG A	37149.654	5.467	5.474	1.00	0.00	C
ATOM	492	O	ARG A	37149.380	6.387	6.245	1.00	0.00	O
ATOM	493	CB	ARG A	37150.821	3.279	5.811	1.00	0.00	C
ATOM	494	CG	ARG A	37150.720	1.790	6.099	1.00	0.00	C
ATOM	495	CD	ARG A	37150.093	1.526	7.458	1.00	0.00	C
ATOM	496	NE	ARG A	37150.689	2.353	8.506	1.00	0.00	N
ATOM	497	CZ	ARG A	37150.129	2.558	9.696	1.00	0.00	C
ATOM	498	NH1	ARG A	37148.963	1.999	9.993	1.00	0.00	N
ATOM	499	NH2	ARG A	37150.737	3.323	10.591	1.00	0.00	N
ATOM	500	H	ARG A	37148.617	3.291	4.109	1.00	0.00	H

ATOM	501	HA	ARG A	37149.138	3.991	6.924	1.00	0.00	H
ATOM	502	1HB	ARG A	37151.221	3.405	4.816	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.507	3.716	6.522	1.00	0.00	H
ATOM	504	1HG	ARG A	37150.112	1.327	5.337	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.712	1.362	6.079	1.00	0.00	H
ATOM	506	1HD	ARG A	37149.036	1.741	7.401	1.00	0.00	H
ATOM	507	2HD	ARG A	37150.235	0.486	7.710	1.00	0.00	H
ATOM	508	HE	ARG A	37151.550	2.778	8.311	1.00	0.00	H
ATOM	509	1HH1	ARG A	37148.498	1.422	9.322	1.00	0.00	H
ATOM	510	2HH1	ARG A	37148.547	2.158	10.889	1.00	0.00	H
ATOM	511	1HH2	ARG A	37151.617	3.746	10.372	1.00	0.00	H
ATOM	512	2HH2	ARG A	37150.318	3.477	11.485	1.00	0.00	H
ATOM	513	N	TRP A	38150.112	5.667	4.242	1.00	0.00	N
ATOM	514	CA	TRP A	38150.321	7.011	3.714	1.00	0.00	C
ATOM	515	C	TRP A	38149.551	7.213	2.412	1.00	0.00	C
ATOM	516	O	TRP A	38149.601	6.374	1.511	1.00	0.00	O
ATOM	517	CB	TRP A	38151.814	7.269	3.486	1.00	0.00	C
ATOM	518	CG	TRP A	38152.095	8.525	2.714	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.313	9.772	3.226	1.00	0.00	C
ATOM	520	CD2	TRP A	38152.181	8.655	1.290	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.531	10.669	2.207	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.455	10.006	1.009	1.00	0.00	C
ATOM	523	CE3	TRP A	38152.055	7.758	0.225	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.603	10.481	-0.292	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.202	8.230	-1.066	1.00	0.00	C
ATOM	526	CH2	TRP A	38152.474	9.581	-1.315	1.00	0.00	C
ATOM	527	H	TRP A	38150.313	4.895	3.674	1.00	0.00	H
ATOM	528	HA	TRP A	38149.952	7.715	4.446	1.00	0.00	H
ATOM	529	1HB	TRP A	38152.309	7.350	4.443	1.00	0.00	H
ATOM	530	2HB	TRP A	38152.236	6.439	2.938	1.00	0.00	H
ATOM	531	HD1	TRP A	38152.312	10.006	4.280	1.00	0.00	H

ATOM	532	HE1	TRP	A	38152.711	11.625	2.319	1.00	0.00	H
ATOM	533	HE3	TRP	A	38151.845	6.713	0.397	1.00	0.00	H
ATOM	534	HZ2	TRP	A	38152.809	11.521	-0.501	1.00	0.00	H
ATOM	535	HZ3	TRP	A	38152.108	7.552	-1.900	1.00	0.00	H
ATOM	536	HH2	TRP	A	38152.582	9.906	-2.340	1.00	0.00	H
ATOM	537	N	ILE	A	39148.850	8.337	2.318	1.00	0.00	N
ATOM	538	CA	ILE	A	39148.078	8.664	1.126	1.00	0.00	C
ATOM	539	C	ILE	A	39148.492	10.024	0.575	1.00	0.00	C
ATOM	540	O	ILE	A	39148.159	11.062	1.146	1.00	0.00	O
ATOM	541	CB	ILE	A	39146.566	8.679	1.420	1.00	0.00	C
ATOM	542	CG1	ILE	A	39146.151	7.396	2.143	1.00	0.00	C
ATOM	543	CG2	ILE	A	39145.777	8.844	0.129	1.00	0.00	C
ATOM	544	CD1	ILE	A	39144.691	7.371	2.539	1.00	0.00	C
ATOM	545	H	ILE	A	39148.859	8.968	3.067	1.00	0.00	H
ATOM	546	HA	ILE	A	39148.275	7.907	0.380	1.00	0.00	H
ATOM	547	HB	ILE	A	39146.353	9.526	2.053	1.00	0.00	H
ATOM	548	1HG1	ILE	A	39146.334	6.551	1.496	1.00	0.00	H
ATOM	549	2HG1	ILE	A	39146.742	7.290	3.041	1.00	0.00	H
ATOM	550	1HG2	ILE	A	39144.765	8.499	0.279	1.00	0.00	H
ATOM	551	2HG2	ILE	A	39146.242	8.264	-0.654	1.00	0.00	H
ATOM	552	3HG2	ILE	A	39145.764	9.886	-0.154	1.00	0.00	H
ATOM	553	1HD1	ILE	A	39144.182	8.211	2.090	1.00	0.00	H
ATOM	554	2HD1	ILE	A	39144.608	7.431	3.614	1.00	0.00	H
ATOM	555	3HD1	ILE	A	39144.241	6.451	2.194	1.00	0.00	H
ATOM	556	N	GLY	A	40149.226	10.012	-0.532	1.00	0.00	N
ATOM	557	CA	GLY	A	40149.678	11.253	-1.131	1.00	0.00	C
ATOM	558	C	GLY	A	40150.185	11.072	-2.546	1.00	0.00	C
ATOM	559	O	GLY	A	40150.020	10.007	-3.142	1.00	0.00	O
ATOM	560	H	GLY	A	40149.467	9.155	-0.943	1.00	0.00	H
ATOM	561	1HA	GLY	A	40148.858	11.955	-1.141	1.00	0.00	H
ATOM	562	2HA	GLY	A	40150.474	11.659	-0.526	1.00	0.00	H

ATOM	563	N	GLN A	41150.799	12.118	-3.087	1.00	0.00	N
ATOM	564	CA	GLN A	41151.332	12.082	-4.441	1.00	0.00	C
ATOM	565	C	GLN A	41152.794	12.528	-4.460	1.00	0.00	C
ATOM	566	O	GLN A	41153.100	13.680	-4.154	1.00	0.00	O
ATOM	567	CB	GLN A	41150.498	12.981	-5.353	1.00	0.00	C
ATOM	568	CG	GLN A	41149.001	12.756	-5.223	1.00	0.00	C
ATOM	569	CD	GLN A	41148.213	14.050	-5.269	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.200	14.818	-4.307	1.00	0.00	O
ATOM	571	NE2	GLN A	41147.549	14.296	-6.391	1.00	0.00	N
ATOM	572	H	GLN A	41150.896	12.939	-2.561	1.00	0.00	H
ATOM	573	HA	GLN A	41151.268	11.065	-4.798	1.00	0.00	H
ATOM	574	1HB	GLN A	41150.707	14.011	-5.111	1.00	0.00	H
ATOM	575	2HB	GLN A	41150.782	12.797	-6.377	1.00	0.00	H
ATOM	576	1HG	GLN A	41148.673	12.124	-6.034	1.00	0.00	H
ATOM	577	2HG	GLN A	41148.803	12.265	-4.282	1.00	0.00	H
ATOM	578	1HE2	GLN A	41147.606	13.638	-7.115	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.032	15.126	-6.451	1.00	0.00	H
ATOM	580	N	PRO A	42153.720	11.620	-4.817	1.00	0.00	N
ATOM	581	CA	PRO A	42155.153	11.933	-4.868	1.00	0.00	C
ATOM	582	C	PRO A	42155.457	13.100	-5.803	1.00	0.00	C
ATOM	583	O	PRO A	42154.658	13.428	-6.681	1.00	0.00	O
ATOM	584	CB	PRO A	42155.789	10.645	-5.399	1.00	0.00	C
ATOM	585	CG	PRO A	42154.802	9.575	-5.083	1.00	0.00	C
ATOM	586	CD	PRO A	42153.453	10.221	-5.197	1.00	0.00	C
ATOM	587	HA	PRO A	42155.544	12.152	-3.885	1.00	0.00	H
ATOM	588	1HB	PRO A	42155.950	10.733	-6.465	1.00	0.00	H
ATOM	589	2HB	PRO A	42156.731	10.472	-4.900	1.00	0.00	H
ATOM	590	1HG	PRO A	42154.894	8.767	-5.794	1.00	0.00	H
ATOM	591	2HG	PRO A	42154.961	9.213	-4.078	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.088	10.159	-6.213	1.00	0.00	H
ATOM	593	2HD	PRO A	42152.754	9.763	-4.513	1.00	0.00	H

ATOM	594	N	PRO A	43156.621	13.746	-5.625	1.00	0.00	N
ATOM	595	CA	PRO A	43157.028	14.881	-6.457	1.00	0.00	C
ATOM	596	C	PRO A	43157.418	14.454	-7.866	1.00	0.00	C
ATOM	597	O	PRO A	43158.590	14.200	-8.146	1.00	0.00	O
ATOM	598	CB	PRO A	43158.241	15.445	-5.719	1.00	0.00	C
ATOM	599	CG	PRO A	43158.803	14.285	-4.973	1.00	0.00	C
ATOM	600	CD	PRO A	43157.630	13.420	-4.600	1.00	0.00	C
ATOM	601	HA	PRO A	43156.254	15.632	-6.510	1.00	0.00	H
ATOM	602	1HB	PRO A	43158.948	15.836	-6.435	1.00	0.00	H
ATOM	603	2HB	PRO A	43157.926	16.230	-5.048	1.00	0.00	H
ATOM	604	1HG	PRO A	43159.487	13.738	-5.607	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.311	14.631	-4.085	1.00	0.00	H
ATOM	606	1HD	PRO A	43157.903	12.376	-4.647	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.273	13.673	-3.614	1.00	0.00	H
ATOM	608	N	GLY A	44156.432	14.379	-8.752	1.00	0.00	N
ATOM	609	CA	GLY A	44156.696	13.984	-10.122	1.00	0.00	C
ATOM	610	C	GLY A	44155.463	13.450	-10.820	1.00	0.00	C
ATOM	611	O	GLY A	44155.131	13.883	-11.924	1.00	0.00	O
ATOM	612	H	GLY A	44155.517	14.595	-8.473	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.062	14.839	-10.667	1.00	0.00	H
ATOM	614	2HA	GLY A	44157.457	13.216	-10.121	1.00	0.00	H
ATOM	615	N	LEU A	45154.782	12.507	-10.178	1.00	0.00	N
ATOM	616	CA	LEU A	45153.577	11.916	-10.749	1.00	0.00	C
ATOM	617	C	LEU A	45152.383	12.121	-9.826	1.00	0.00	C
ATOM	618	O	LEU A	45152.330	11.557	-8.733	1.00	0.00	O
ATOM	619	CB	LEU A	45153.789	10.422	-11.006	1.00	0.00	C
ATOM	620	CG	LEU A	45154.407	9.647	-9.841	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.115	8.159	-9.974	1.00	0.00	C
ATOM	622	CD2	LEU A	45155.907	9.898	-9.771	1.00	0.00	C
ATOM	623	H	LEU A	45155.095	12.205	-9.298	1.00	0.00	H
ATOM	624	HA	LEU A	45153.380	12.409	-11.690	1.00	0.00	H

ATOM	625	1HB	LEU	A	45152.830	9.980	-11.238	1.00	0.00	H
ATOM	626	2HB	LEU	A	45154.434	10.314	-11.865	1.00	0.00	H
ATOM	627	HG	LEU	A	45153.966	9.991	-8.916	1.00	0.00	H
ATOM	628	1HD1	LEU	A	45155.036	7.624	-10.154	1.00	0.00	H
ATOM	629	2HD1	LEU	A	45153.438	7.995	-10.800	1.00	0.00	H
ATOM	630	3HD1	LEU	A	45153.663	7.798	-9.062	1.00	0.00	H
ATOM	631	1HD2	LEU	A	45156.426	8.959	-9.648	1.00	0.00	H
ATOM	632	2HD2	LEU	A	45156.125	10.542	-8.932	1.00	0.00	H
ATOM	633	3HD2	LEU	A	45156.236	10.374	-10.684	1.00	0.00	H
ATOM	634	N	ASN	A	46151.424	12.927	-10.269	1.00	0.00	N
ATOM	635	CA	ASN	A	46150.235	13.193	-9.470	1.00	0.00	C
ATOM	636	C	ASN	A	46149.317	11.976	-9.459	1.00	0.00	C
ATOM	637	O	ASN	A	46148.674	11.660	-10.460	1.00	0.00	O
ATOM	638	CB	ASN	A	46149.488	14.408	-10.023	1.00	0.00	C
ATOM	639	CG	ASN	A	46148.414	14.909	-9.078	1.00	0.00	C
ATOM	640	OD1	ASN	A	46147.337	14.320	-8.976	1.00	0.00	O
ATOM	641	ND2	ASN	A	46148.701	16.002	-8.381	1.00	0.00	N
ATOM	642	H	ASN	A	46151.517	13.350	-11.148	1.00	0.00	H
ATOM	643	HA	ASN	A	46150.552	13.403	-8.459	1.00	0.00	H
ATOM	644	1HB	ASN	A	46150.192	15.210	-10.193	1.00	0.00	H
ATOM	645	2HB	ASN	A	46149.022	14.140	-10.960	1.00	0.00	H
ATOM	646	1HD2	ASN	A	46149.578	16.418	-8.513	1.00	0.00	H
ATOM	647	2HD2	ASN	A	46148.024	16.347	-7.762	1.00	0.00	H
ATOM	648	N	GLU	A	47149.262	11.298	-8.318	1.00	0.00	N
ATOM	649	CA	GLU	A	47148.424	10.115	-8.169	1.00	0.00	C
ATOM	650	C	GLU	A	47148.293	9.726	-6.701	1.00	0.00	C
ATOM	651	O	GLU	A	47149.290	9.450	-6.033	1.00	0.00	O
ATOM	652	CB	GLU	A	47149.005	8.945	-8.967	1.00	0.00	C
ATOM	653	CG	GLU	A	47150.523	8.861	-8.914	1.00	0.00	C
ATOM	654	CD	GLU	A	47151.092	7.924	-9.962	1.00	0.00	C
ATOM	655	OE1	GLU	A	47151.464	6.787	-9.603	1.00	0.00	O

ATOM	656	OE2	GLU A	47151.164	8.328	-11.142	1.00	0.00	O
ATOM	657	H	GLU A	47149.799	11.601	-7.558	1.00	0.00	H
ATOM	658	HA	GLU A	47147.445	10.351	-8.555	1.00	0.00	H
ATOM	659	1HB	GLU A	47148.602	8.022	-8.577	1.00	0.00	H
ATOM	660	2HB	GLU A	47148.709	9.048	-10.001	1.00	0.00	H
ATOM	661	1HG	GLU A	47150.931	9.847	-9.076	1.00	0.00	H
ATOM	662	2HG	GLU A	47150.820	8.507	-7.938	1.00	0.00	H
ATOM	663	N	VAL A	48147.064	9.696	-6.203	1.00	0.00	N
ATOM	664	CA	VAL A	48146.817	9.330	-4.815	1.00	0.00	C
ATOM	665	C	VAL A	48147.192	7.874	-4.570	1.00	0.00	C
ATOM	666	O	VAL A	48146.430	6.963	-4.895	1.00	0.00	O
ATOM	667	CB	VAL A	48145.342	9.544	-4.426	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.152	9.357	-2.928	1.00	0.00	C
ATOM	669	CG2	VAL A	48144.869	10.922	-4.863	1.00	0.00	C
ATOM	670	H	VAL A	48146.305	9.918	-6.782	1.00	0.00	H
ATOM	671	HA	VAL A	48147.433	9.961	-4.188	1.00	0.00	H
ATOM	672	HB	VAL A	48144.745	8.803	-4.936	1.00	0.00	H
ATOM	673	1HG1	VAL A	48144.216	9.803	-2.627	1.00	0.00	H
ATOM	674	2HG1	VAL A	48145.964	9.833	-2.401	1.00	0.00	H
ATOM	675	3HG1	VAL A	48145.140	8.302	-2.696	1.00	0.00	H
ATOM	676	1HG2	VAL A	48145.632	11.653	-4.636	1.00	0.00	H
ATOM	677	2HG2	VAL A	48143.961	11.174	-4.337	1.00	0.00	H
ATOM	678	3HG2	VAL A	48144.681	10.918	-5.926	1.00	0.00	H
ATOM	679	N	LEU A	49148.373	7.660	-4.000	1.00	0.00	N
ATOM	680	CA	LEU A	49148.852	6.313	-3.717	1.00	0.00	C
ATOM	681	C	LEU A	49148.792	6.021	-2.223	1.00	0.00	C
ATOM	682	O	LEU A	49149.500	6.641	-1.431	1.00	0.00	O
ATOM	683	CB	LEU A	49150.283	6.140	-4.227	1.00	0.00	C
ATOM	684	CG	LEU A	49150.454	6.288	-5.740	1.00	0.00	C
ATOM	685	CD1	LEU A	49151.838	6.822	-6.071	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.214	4.956	-6.434	1.00	0.00	C

ATOM	687	H	LEU A	49148.937	8.425	-3.765	1.00	0.00	H
ATOM	688	HA	LEU A	49148.208	5.617	-4.234	1.00	0.00	H
ATOM	689	1HB	LEU A	49150.907	6.878	-3.741	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.629	5.158	-3.942	1.00	0.00	H
ATOM	691	HG	LEU A	49149.726	6.995	-6.111	1.00	0.00	H
ATOM	692	1HD1	LEU A	49151.800	7.900	-6.146	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.169	6.408	-7.012	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.530	6.540	-5.290	1.00	0.00	H
ATOM	695	1HD2	LEU A	49149.181	4.891	-6.742	1.00	0.00	H
ATOM	696	2HD2	LEU A	49150.438	4.149	-5.751	1.00	0.00	H
ATOM	697	3HD2	LEU A	49150.854	4.882	-7.301	1.00	0.00	H
ATOM	698	N	ALA A	50147.943	5.072	-1.846	1.00	0.00	N
ATOM	699	CA	ALA A	50147.794	4.702	-0.446	1.00	0.00	C
ATOM	700	C	ALA A	50148.728	3.553	-0.081	1.00	0.00	C
ATOM	701	O	ALA A	50148.587	2.440	-0.588	1.00	0.00	O
ATOM	702	CB	ALA A	50146.350	4.325	-0.152	1.00	0.00	C
ATOM	703	H	ALA A	50147.405	4.613	-2.524	1.00	0.00	H
ATOM	704	HA	ALA A	50148.047	5.565	0.151	1.00	0.00	H
ATOM	705	1HB	ALA A	50145.908	3.878	-1.029	1.00	0.00	H
ATOM	706	2HB	ALA A	50145.795	5.211	0.119	1.00	0.00	H
ATOM	707	3HB	ALA A	50146.321	3.620	0.666	1.00	0.00	H
ATOM	708	N	GLY A	51149.682	3.830	0.801	1.00	0.00	N
ATOM	709	CA	GLY A	51150.625	2.809	1.219	1.00	0.00	C
ATOM	710	C	GLY A	51149.976	1.735	2.070	1.00	0.00	C
ATOM	711	O	GLY A	51149.657	1.965	3.236	1.00	0.00	O
ATOM	712	H	GLY A	51149.746	4.734	1.173	1.00	0.00	H
ATOM	713	1HA	GLY A	51151.052	2.348	0.341	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.414	3.275	1.789	1.00	0.00	H
ATOM	715	N	LEU A	52149.779	0.557	1.485	1.00	0.00	N
ATOM	716	CA	LEU A	52149.164	-0.556	2.198	1.00	0.00	C
ATOM	717	C	LEU A	52150.224	-1.465	2.808	1.00	0.00	C

ATOM	718	O	LEU A	52151.150	-1.902	2.125	1.00	0.00	O
ATOM	719	CB	LEU A	52148.265	-1.358	1.256	1.00	0.00	C
ATOM	720	CG	LEU A	52147.001	-0.634	0.792	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.360	-1.372	-0.373	1.00	0.00	C
ATOM	722	CD2	LEU A	52146.016	-0.493	1.943	1.00	0.00	C
ATOM	723	H	LEU A	52150.054	0.434	0.553	1.00	0.00	H
ATOM	724	HA	LEU A	52148.559	-0.145	2.994	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.844	-1.626	0.383	1.00	0.00	H
ATOM	726	2HB	LEU A	52147.968	-2.266	1.761	1.00	0.00	H
ATOM	727	HG	LEU A	52147.265	0.358	0.453	1.00	0.00	H
ATOM	728	1HD1	LEU A	52146.068	-2.362	-0.055	1.00	0.00	H
ATOM	729	2HD1	LEU A	52147.069	-1.448	-1.184	1.00	0.00	H
ATOM	730	3HD1	LEU A	52145.488	-0.829	-0.707	1.00	0.00	H
ATOM	731	1HD2	LEU A	52145.198	0.145	1.641	1.00	0.00	H
ATOM	732	2HD2	LEU A	52146.517	-0.057	2.794	1.00	0.00	H
ATOM	733	3HD2	LEU A	52145.633	-1.467	2.211	1.00	0.00	H
ATOM	734	N	GLU A	53150.082	-1.748	4.100	1.00	0.00	N
ATOM	735	CA	GLU A	53151.027	-2.607	4.802	1.00	0.00	C
ATOM	736	C	GLU A	53150.520	-4.044	4.856	1.00	0.00	C
ATOM	737	O	GLU A	53149.535	-4.340	5.532	1.00	0.00	O
ATOM	738	CB	GLU A	53151.266	-2.085	6.221	1.00	0.00	C
ATOM	739	CG	GLU A	53152.268	-2.908	7.013	1.00	0.00	C
ATOM	740	CD	GLU A	53151.835	-3.131	8.448	1.00	0.00	C
ATOM	741	OE1	GLU A	53151.291	-4.216	8.744	1.00	0.00	O
ATOM	742	OE2	GLU A	53152.041	-2.220	9.279	1.00	0.00	O
ATOM	743	H	GLU A	53149.323	-1.370	4.591	1.00	0.00	H
ATOM	744	HA	GLU A	53151.961	-2.587	4.259	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.633	-1.071	6.162	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.327	-2.087	6.756	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.382	-3.870	6.534	1.00	0.00	H
ATOM	748	2HG	GLU A	53153.217	-2.393	7.013	1.00	0.00	H

ATOM	749	N	LEU A	54151.200	-4.933	4.139	1.00	0.00	N
ATOM	750	CA	LEU A	54150.817	-6.340	4.105	1.00	0.00	C
ATOM	751	C	LEU A	54151.111	-7.016	5.440	1.00	0.00	C
ATOM	752	O	LEU A	54152.156	-6.782	6.049	1.00	0.00	O
ATOM	753	CB	LEU A	54151.558	-7.064	2.979	1.00	0.00	C
ATOM	754	CG	LEU A	54151.517	-6.362	1.621	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.750	-6.710	0.802	1.00	0.00	C
ATOM	756	CD2	LEU A	54150.250	-6.737	0.867	1.00	0.00	C
ATOM	757	H	LEU A	54151.976	-4.637	3.621	1.00	0.00	H
ATOM	758	HA	LEU A	54149.755	-6.390	3.916	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.592	-7.178	3.272	1.00	0.00	H
ATOM	760	2HB	LEU A	54151.123	-8.046	2.864	1.00	0.00	H
ATOM	761	HG	LEU A	54151.510	-5.293	1.776	1.00	0.00	H
ATOM	762	1HD1	LEU A	54152.593	-6.419	-0.226	1.00	0.00	H
ATOM	763	2HD1	LEU A	54152.926	-7.775	0.853	1.00	0.00	H
ATOM	764	3HD1	LEU A	54153.605	-6.184	1.199	1.00	0.00	H
ATOM	765	1HD2	LEU A	54150.238	-7.803	0.691	1.00	0.00	H
ATOM	766	2HD2	LEU A	54150.227	-6.216	-0.080	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.386	-6.459	1.452	1.00	0.00	H
ATOM	768	N	GLU A	55150.185	-7.857	5.890	1.00	0.00	N
ATOM	769	CA	GLU A	55150.346	-8.568	7.153	1.00	0.00	C
ATOM	770	C	GLU A	55151.400	-9.662	7.031	1.00	0.00	C
ATOM	771	O	GLU A	55152.098	-9.977	7.995	1.00	0.00	O
ATOM	772	CB	GLU A	55149.013	-9.174	7.594	1.00	0.00	C
ATOM	773	CG	GLU A	55148.076	-8.172	8.249	1.00	0.00	C
ATOM	774	CD	GLU A	55146.632	-8.363	7.827	1.00	0.00	C
ATOM	775	OE1	GLU A	55145.767	-8.503	8.717	1.00	0.00	O
ATOM	776	OE2	GLU A	55146.366	-8.371	6.606	1.00	0.00	O
ATOM	777	H	GLU A	55149.374	-8.002	5.359	1.00	0.00	H
ATOM	778	HA	GLU A	55150.670	-7.853	7.895	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.515	-9.588	6.730	1.00	0.00	H

ATOM	780	2HB	GLU A	55149.207	-9.967	8.301	1.00	0.00	H
ATOM	781	1HG	GLU A	55148.139	-8.286	9.321	1.00	0.00	H
ATOM	782	2HG	GLU A	55148.387	-7.174	7.974	1.00	0.00	H
ATOM	783	N	ASP A	56151.511	-10.239	5.839	1.00	0.00	N
ATOM	784	CA	ASP A	56152.481	-11.300	5.590	1.00	0.00	C
ATOM	785	C	ASP A	56153.770	-10.732	5.004	1.00	0.00	C
ATOM	786	O	ASP A	56153.744	-10.008	4.008	1.00	0.00	O
ATOM	787	CB	ASP A	56151.893	-12.345	4.642	1.00	0.00	C
ATOM	788	CG	ASP A	56151.185	-13.464	5.381	1.00	0.00	C
ATOM	789	OD1	ASP A	56151.383	-14.640	5.009	1.00	0.00	O
ATOM	790	OD2	ASP A	56150.434	-13.164	6.333	1.00	0.00	O
ATOM	791	H	ASP A	56150.927	-9.945	5.109	1.00	0.00	H
ATOM	792	HA	ASP A	56152.707	-11.770	6.535	1.00	0.00	H
ATOM	793	1HB	ASP A	56151.181	-11.867	3.985	1.00	0.00	H
ATOM	794	2HB	ASP A	56152.688	-12.775	4.051	1.00	0.00	H
ATOM	795	N	GLU A	57154.895	-11.065	5.626	1.00	0.00	N
ATOM	796	CA	GLU A	57156.194	-10.588	5.166	1.00	0.00	C
ATOM	797	C	GLU A	57156.577	-11.245	3.845	1.00	0.00	C
ATOM	798	O	GLU A	57157.029	-12.390	3.817	1.00	0.00	O
ATOM	799	CB	GLU A	57157.267	-10.870	6.220	1.00	0.00	C
ATOM	800	CG	GLU A	57157.447	-9.740	7.221	1.00	0.00	C
ATOM	801	CD	GLU A	57158.872	-9.634	7.728	1.00	0.00	C
ATOM	802	OE1	GLU A	57159.805	-9.697	6.900	1.00	0.00	O
ATOM	803	OE2	GLU A	57159.056	-9.488	8.955	1.00	0.00	O
ATOM	804	H	GLU A	57154.851	-11.645	6.416	1.00	0.00	H
ATOM	805	HA	GLU A	57156.121	-9.522	5.016	1.00	0.00	H
ATOM	806	1HB	GLU A	57156.996	-11.764	6.763	1.00	0.00	H
ATOM	807	2HB	GLU A	57158.211	-11.035	5.721	1.00	0.00	H
ATOM	808	1HG	GLU A	57157.181	-8.809	6.746	1.00	0.00	H
ATOM	809	2HG	GLU A	57156.793	-9.914	8.062	1.00	0.00	H
ATOM	810	N	CYS A	58156.395	-10.513	2.750	1.00	0.00	N

ATOM	811	CA	CYS A	58156.722	-11.025	1.425	1.00	0.00	C
ATOM	812	C	CYS A	58158.004	-10.389	0.898	1.00	0.00	C
ATOM	813	O	CYS A	58158.094	-9.169	0.762	1.00	0.00	O
ATOM	814	CB	CYS A	58155.570	-10.760	0.454	1.00	0.00	C
ATOM	815	SG	CYS A	58154.347	-12.089	0.379	1.00	0.00	S
ATOM	816	H	CYS A	58156.032	-9.607	2.837	1.00	0.00	H
ATOM	817	HA	CYS A	58156.872	-12.091	1.509	1.00	0.00	H
ATOM	818	1HB	CYS A	58155.057	-9.858	0.754	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.972	-10.625	-0.540	1.00	0.00	H
ATOM	820	HG	CYS A	58154.819	-12.920	0.284	1.00	0.00	H
ATOM	821	N	ALAA	59158.995	-11.225	0.602	1.00	0.00	N
ATOM	822	CA	ALAA	59160.272	-10.744	0.090	1.00	0.00	C
ATOM	823	C	ALAA	59160.092	-10.017	-1.238	1.00	0.00	C
ATOM	824	O	ALAA	59159.556	-10.575	-2.195	1.00	0.00	O
ATOM	825	CB	ALAA	59161.246	-11.902	-0.069	1.00	0.00	C
ATOM	826	H	ALAA	59158.864	-12.187	0.732	1.00	0.00	H
ATOM	827	HA	ALAA	59160.683	-10.055	0.813	1.00	0.00	H
ATOM	828	1HB	ALAA	59161.919	-11.697	-0.889	1.00	0.00	H
ATOM	829	2HB	ALAA	59160.697	-12.809	-0.272	1.00	0.00	H
ATOM	830	3HB	ALAA	59161.814	-12.021	0.841	1.00	0.00	H
ATOM	831	N	GLY A	60160.541	-8.767	-1.288	1.00	0.00	N
ATOM	832	CA	GLY A	60160.420	-7.984	-2.504	1.00	0.00	C
ATOM	833	C	GLY A	60159.945	-6.569	-2.237	1.00	0.00	C
ATOM	834	O	GLY A	60160.265	-5.647	-2.989	1.00	0.00	O
ATOM	835	H	GLY A	60160.959	-8.373	-0.494	1.00	0.00	H
ATOM	836	1HA	GLY A	60161.382	-7.943	-2.991	1.00	0.00	H
ATOM	837	2HA	GLY A	60159.715	-8.469	-3.163	1.00	0.00	H
ATOM	838	N	CYS A	61159.183	-6.395	-1.163	1.00	0.00	N
ATOM	839	CA	CYS A	61158.664	-5.082	-0.798	1.00	0.00	C
ATOM	840	C	CYS A	61159.626	-4.359	0.140	1.00	0.00	C
ATOM	841	O	CYS A	61160.633	-4.922	0.567	1.00	0.00	O

ATOM	842	CB	CYS A	61157.293	-5.218	-0.136	1.00	0.00	C
ATOM	843	SG	CYS A	61156.080	-6.119	-1.129	1.00	0.00	S
ATOM	844	H	CYS A	61158.963	-7.168	-0.602	1.00	0.00	H
ATOM	845	HA	CYS A	61158.561	-4.503	-1.704	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.403	-5.742	0.801	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.894	-4.232	0.055	1.00	0.00	H
ATOM	848	HG	CYS A	61156.127	-5.787	-2.029	1.00	0.00	H
ATOM	849	N	THR A	62159.306	-3.107	0.457	1.00	0.00	N
ATOM	850	CA	THR A	62160.142	-2.308	1.345	1.00	0.00	C
ATOM	851	C	THR A	62159.530	-2.225	2.739	1.00	0.00	C
ATOM	852	O	THR A	62158.568	-2.929	3.048	1.00	0.00	O
ATOM	853	CB	THR A	62160.329	-0.902	0.774	1.00	0.00	C
ATOM	854	OG1	THR A	62159.146	-0.138	0.925	1.00	0.00	O
ATOM	855	CG2	THR A	62160.696	-0.896	-0.695	1.00	0.00	C
ATOM	856	H	THR A	62158.490	-2.714	0.084	1.00	0.00	H
ATOM	857	HA	THR A	62161.106	-2.789	1.416	1.00	0.00	H
ATOM	858	HB	THR A	62161.123	-0.407	1.314	1.00	0.00	H
ATOM	859	HG1	THR A	62158.400	-0.629	0.572	1.00	0.00	H
ATOM	860	1HG2	THR A	62161.182	0.036	-0.941	1.00	0.00	H
ATOM	861	2HG2	THR A	62159.800	-1.003	-1.290	1.00	0.00	H
ATOM	862	3HG2	THR A	62161.365	-1.718	-0.902	1.00	0.00	H
ATOM	863	N	ASP A	63160.095	-1.362	3.578	1.00	0.00	N
ATOM	864	CA	ASP A	63159.605	-1.188	4.940	1.00	0.00	C
ATOM	865	C	ASP A	63158.822	0.115	5.073	1.00	0.00	C
ATOM	866	O	ASP A	63158.815	0.740	6.134	1.00	0.00	O
ATOM	867	CB	ASP A	63160.772	-1.199	5.930	1.00	0.00	C
ATOM	868	CG	ASP A	63161.778	-0.100	5.649	1.00	0.00	C
ATOM	869	OD1	ASP A	63162.909	-0.422	5.230	1.00	0.00	O
ATOM	870	OD2	ASP A	63161.434	1.085	5.850	1.00	0.00	O
ATOM	871	H	ASP A	63160.860	-0.830	3.272	1.00	0.00	H
ATOM	872	HA	ASP A	63158.947	-2.013	5.164	1.00	0.00	H

ATOM	873	1HB	ASP	A	63160.389	-1.064	6.930	1.00	0.00	H
ATOM	874	2HB	ASP	A	63161.279	-2.151	5.867	1.00	0.00	H
ATOM	875	N	GLY	A	64158.166	0.519	3.991	1.00	0.00	N
ATOM	876	CA	GLY	A	64157.389	1.744	4.009	1.00	0.00	C
ATOM	877	C	GLY	A	64158.114	2.900	3.347	1.00	0.00	C
ATOM	878	O	GLY	A	64158.167	4.002	3.892	1.00	0.00	O
ATOM	879	H	GLY	A	64158.208	-0.020	3.174	1.00	0.00	H
ATOM	880	1HA	GLY	A	64156.457	1.574	3.492	1.00	0.00	H
ATOM	881	2HA	GLY	A	64157.177	2.008	5.035	1.00	0.00	H
ATOM	882	N	THR	A	65158.674	2.647	2.168	1.00	0.00	N
ATOM	883	CA	THR	A	65159.399	3.675	1.431	1.00	0.00	C
ATOM	884	C	THR	A	65159.023	3.652	-0.047	1.00	0.00	C
ATOM	885	O	THR	A	65159.172	2.632	-0.720	1.00	0.00	O
ATOM	886	CB	THR	A	65160.908	3.476	1.589	1.00	0.00	C
ATOM	887	OG1	THR	A	65161.327	2.287	0.941	1.00	0.00	O
ATOM	888	CG2	THR	A	65161.353	3.394	3.032	1.00	0.00	C
ATOM	889	H	THR	A	65158.598	1.748	1.786	1.00	0.00	H
ATOM	890	HA	THR	A	65159.127	4.635	1.845	1.00	0.00	H
ATOM	891	HB	THR	A	65161.420	4.310	1.131	1.00	0.00	H
ATOM	892	HG1	THR	A	65160.733	1.570	1.174	1.00	0.00	H
ATOM	893	1HG2	THR	A	65161.703	2.395	3.245	1.00	0.00	H
ATOM	894	2HG2	THR	A	65160.521	3.631	3.680	1.00	0.00	H
ATOM	895	3HG2	THR	A	65162.154	4.099	3.203	1.00	0.00	H
ATOM	896	N	PHE	A	66158.536	4.784	-0.546	1.00	0.00	N
ATOM	897	CA	PHE	A	66158.138	4.894	-1.945	1.00	0.00	C
ATOM	898	C	PHE	A	66159.106	5.785	-2.717	1.00	0.00	C
ATOM	899	O	PHE	A	66159.243	6.971	-2.422	1.00	0.00	O
ATOM	900	CB	PHE	A	66156.718	5.452	-2.051	1.00	0.00	C
ATOM	901	CG	PHE	A	66156.051	5.152	-3.362	1.00	0.00	C
ATOM	902	CD1	PHE	A	66155.567	6.177	-4.159	1.00	0.00	C
ATOM	903	CD2	PHE	A	66155.908	3.844	-3.798	1.00	0.00	C

ATOM	904	CE1	PHE	A	66154.953	5.903	-5.367	1.00	0.00	C
ATOM	905	CE2	PHE	A	66155.294	3.564	-5.004	1.00	0.00	C
ATOM	906	CZ	PHE	A	66154.816	4.596	-5.790	1.00	0.00	C
ATOM	907	H	PHE	A	66158.441	5.563	0.040	1.00	0.00	H
ATOM	908	HA	PHE	A	66158.159	3.904	-2.374	1.00	0.00	H
ATOM	909	1HB	PHE	A	66156.112	5.028	-1.265	1.00	0.00	H
ATOM	910	2HB	PHE	A	66156.752	6.526	-1.931	1.00	0.00	H
ATOM	911	HD1	PHE	A	66155.674	7.200	-3.829	1.00	0.00	H
ATOM	912	HD2	PHE	A	66156.282	3.037	-3.185	1.00	0.00	H
ATOM	913	HE1	PHE	A	66154.579	6.711	-5.978	1.00	0.00	H
ATOM	914	HE2	PHE	A	66155.189	2.541	-5.333	1.00	0.00	H
ATOM	915	HZ	PHE	A	66154.337	4.379	-6.732	1.00	0.00	H
ATOM	916	N	ARG	A	67159.776	5.204	-3.706	1.00	0.00	N
ATOM	917	CA	ARG	A	67160.732	5.945	-4.521	1.00	0.00	C
ATOM	918	C	ARG	A	67161.860	6.505	-3.662	1.00	0.00	C
ATOM	919	O	ARG	A	67162.359	7.602	-3.913	1.00	0.00	O
ATOM	920	CB	ARG	A	67160.026	7.082	-5.263	1.00	0.00	C
ATOM	921	CG	ARG	A	67158.955	6.606	-6.229	1.00	0.00	C
ATOM	922	CD	ARG	A	67158.909	7.468	-7.481	1.00	0.00	C
ATOM	923	NE	ARG	A	67160.062	7.236	-8.347	1.00	0.00	N
ATOM	924	CZ	ARG	A	67160.434	8.061	-9.323	1.00	0.00	C
ATOM	925	NH1	ARG	A	67159.746	9.171	-9.562	1.00	0.00	N
ATOM	926	NH2	ARG	A	67161.496	7.775	-10.064	1.00	0.00	N
ATOM	927	H	ARG	A	67159.624	4.254	-3.893	1.00	0.00	H
ATOM	928	HA	ARG	A	67161.150	5.261	-5.244	1.00	0.00	H
ATOM	929	1HB	ARG	A	67159.564	7.736	-4.539	1.00	0.00	H
ATOM	930	2HB	ARG	A	67160.762	7.642	-5.822	1.00	0.00	H
ATOM	931	1HG	ARG	A	67159.166	5.587	-6.514	1.00	0.00	H
ATOM	932	2HG	ARG	A	67157.994	6.651	-5.736	1.00	0.00	H
ATOM	933	1HD	ARG	A	67158.008	7.237	-8.029	1.00	0.00	H
ATOM	934	2HD	ARG	A	67158.894	8.507	-7.186	1.00	0.00	H

ATOM 935 HE ARG A 67160.588 6.424 -8.193 1.00 0.00 H
 ATOM 936 1HH1 ARG A 67158.944 9.393 -9.007 1.00 0.00 H
 ATOM 937 2HH1 ARG A 67160.030 9.786 -10.297 1.00 0.00 H
 ATOM 938 1HH2 ARG A 67162.018 6.940 -9.888 1.00 0.00 H
 ATOM 939 2HH2 ARG A 67161.775 8.395 -10.798 1.00 0.00 H
 ATOM 940 N GLY A 68162.258 5.744 -2.648 1.00 0.00 N
 ATOM 941 CA GLY A 68163.326 6.180 -1.767 1.00 0.00 C
 ATOM 942 C GLY A 68162.888 7.290 -0.831 1.00 0.00 C
 ATOM 943 O GLY A 68163.699 8.118 -0.417 1.00 0.00 O
 ATOM 944 H GLY A 68161.824 4.879 -2.497 1.00 0.00 H
 ATOM 945 1HA GLY A 68163.660 5.339 -1.179 1.00 0.00 H
 ATOM 946 2HA GLY A 68164.150 6.537 -2.368 1.00 0.00 H
 ATOM 947 N THR A 69161.602 7.306 -0.497 1.00 0.00 N
 ATOM 948 CA THR A 69161.057 8.321 0.396 1.00 0.00 C
 ATOM 949 C THR A 69160.168 7.689 1.461 1.00 0.00 C
 ATOM 950 O THR A 69159.055 7.247 1.174 1.00 0.00 O
 ATOM 951 CB THR A 69160.261 9.357 -0.401 1.00 0.00 C
 ATOM 952 OG1 THR A 69160.900 9.644 -1.631 1.00 0.00 O
 ATOM 953 CG2 THR A 69160.075 10.666 0.336 1.00 0.00 C
 ATOM 954 H THR A 69161.005 6.618 -0.860 1.00 0.00 H
 ATOM 955 HA THR A 69161.886 8.814 0.882 1.00 0.00 H
 ATOM 956 HB THR A 69159.281 8.955 -0.614 1.00 0.00 H
 ATOM 957 HG1 THR A 69161.773 10.008 -1.461 1.00 0.00 H
 ATOM 958 1HG2 THR A 69160.256 11.488 -0.340 1.00 0.00 H
 ATOM 959 2HG2 THR A 69160.772 10.717 1.160 1.00 0.00 H
 ATOM 960 3HG2 THR A 69159.065 10.725 0.714 1.00 0.00 H
 ATOM 961 N ARG A 70160.666 7.649 2.693 1.00 0.00 N
 ATOM 962 CA ARG A 70159.916 7.070 3.801 1.00 0.00 C
 ATOM 963 C ARG A 70158.751 7.971 4.200 1.00 0.00 C
 ATOM 964 O ARG A 70158.945 9.137 4.541 1.00 0.00 O
 ATOM 965 CB ARG A 70160.835 6.844 5.004 1.00 0.00 C

ATOM	966	CG	ARG A	70160.136	6.206	6.193	1.00	0.00	C
ATOM	967	CD	ARG A	70160.931	6.397	7.474	1.00	0.00	C
ATOM	968	NE	ARG A	70162.034	5.445	7.582	1.00	0.00	N
ATOM	969	CZ	ARG A	70163.054	5.585	8.426	1.00	0.00	C
ATOM	970	NH1	ARG A	70163.116	6.635	9.235	1.00	0.00	N
ATOM	971	NH2	ARG A	70164.015	4.673	8.459	1.00	0.00	N
ATOM	972	H	ARG A	70161.559	8.016	2.860	1.00	0.00	H
ATOM	973	HA	ARG A	70159.524	6.118	3.476	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.649	6.200	4.704	1.00	0.00	H
ATOM	975	2HB	ARG A	70161.239	7.796	5.318	1.00	0.00	H
ATOM	976	1HG	ARG A	70159.164	6.660	6.312	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.020	5.149	6.005	1.00	0.00	H
ATOM	978	1HD	ARG A	70161.331	7.400	7.489	1.00	0.00	H
ATOM	979	2HD	ARG A	70160.268	6.263	8.317	1.00	0.00	H
ATOM	980	HE	ARG A	70162.013	4.661	6.995	1.00	0.00	H
ATOM	981	1HH1	ARG A	70162.394	7.327	9.215	1.00	0.00	H
ATOM	982	2HH1	ARG A	70163.885	6.734	9.866	1.00	0.00	H
ATOM	983	1HH2	ARG A	70163.974	3.880	7.851	1.00	0.00	H
ATOM	984	2HH2	ARG A	70164.782	4.778	9.092	1.00	0.00	H
ATOM	985	N	TYR A	71157.543	7.421	4.154	1.00	0.00	N
ATOM	986	CA	TYR A	71156.346	8.176	4.510	1.00	0.00	C
ATOM	987	C	TYR A	71155.852	7.788	5.900	1.00	0.00	C
ATOM	988	O	TYR A	71155.446	8.644	6.686	1.00	0.00	O
ATOM	989	CB	TYR A	71155.242	7.936	3.479	1.00	0.00	C
ATOM	990	CG	TYR A	71155.536	8.538	2.124	1.00	0.00	C
ATOM	991	CD1	TYR A	71156.048	9.825	2.011	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.304	7.820	0.958	1.00	0.00	C
ATOM	993	CE1	TYR A	71156.318	10.379	0.773	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.572	8.367	-0.283	1.00	0.00	C
ATOM	995	CZ	TYR A	71156.079	9.647	-0.369	1.00	0.00	C
ATOM	996	OH	TYR A	71156.347	10.193	-1.603	1.00	0.00	O

ATOM	997	H	TYR A	71157.452	6.487	3.874	1.00	0.00	H
ATOM	998	HA	TYR A	71156.604	9.224	4.511	1.00	0.00	H
ATOM	999	1HB	TYR A	71155.106	6.873	3.346	1.00	0.00	H
ATOM	1000	2HB	TYR A	71154.321	8.368	3.842	1.00	0.00	H
ATOM	1001	HD1	TYR A	71156.234	10.397	2.908	1.00	0.00	H
ATOM	1002	HD2	TYR A	71154.906	6.819	1.029	1.00	0.00	H
ATOM	1003	HE1	TYR A	71156.716	11.381	0.706	1.00	0.00	H
ATOM	1004	HE2	TYR A	71155.384	7.793	-1.178	1.00	0.00	H
ATOM	1005	HH	TYR A	71157.236	9.952	-1.874	1.00	0.00	H
ATOM	1006	N	PHE A	72155.891	6.494	6.197	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.448	5.993	7.492	1.00	0.00	C
ATOM	1008	C	PHE A	72156.433	4.968	8.045	1.00	0.00	C
ATOM	1009	O	PHE A	72157.368	4.556	7.358	1.00	0.00	O
ATOM	1010	CB	PHE A	72154.057	5.368	7.373	1.00	0.00	C
ATOM	1011	CG	PHE A	72153.981	4.262	6.359	1.00	0.00	C
ATOM	1012	CD1	PHE A	72154.205	2.946	6.733	1.00	0.00	C
ATOM	1013	CD2	PHE A	72153.686	4.538	5.034	1.00	0.00	C
ATOM	1014	CE1	PHE A	72154.135	1.926	5.802	1.00	0.00	C
ATOM	1015	CE2	PHE A	72153.616	3.522	4.099	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.841	2.214	4.484	1.00	0.00	C
ATOM	1017	H	PHE A	72156.226	5.859	5.528	1.00	0.00	H
ATOM	1018	HA	PHE A	72155.399	6.831	8.172	1.00	0.00	H
ATOM	1019	1HB	PHE A	72153.769	4.961	8.330	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.350	6.133	7.084	1.00	0.00	H
ATOM	1021	HD1	PHE A	72154.434	2.719	7.763	1.00	0.00	H
ATOM	1022	HD2	PHE A	72153.511	5.560	4.731	1.00	0.00	H
ATOM	1023	HE1	PHE A	72154.311	0.905	6.106	1.00	0.00	H
ATOM	1024	HE2	PHE A	72153.386	3.751	3.069	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.786	1.419	3.756	1.00	0.00	H
ATOM	1026	N	THR A	73156.216	4.559	9.291	1.00	0.00	N
ATOM	1027	CA	THR A	73157.085	3.581	9.937	1.00	0.00	C

ATOM 1028 C THRA 73156.374 2.242 10.094 1.00 0.00 C
 ATOM 1029 O THRA 73155.396 2.129 10.834 1.00 0.00 O
 ATOM 1030 CB THRA 73157.538 4.094 11.304 1.00 0.00 C
 ATOM 1031 OG1 THRA 73157.838 5.477 11.247 1.00 0.00 O
 ATOM 1032 CG2 THRA 73158.761 3.380 11.837 1.00 0.00 C
 ATOM 1033 H THRA 73155.455 4.923 9.789 1.00 0.00 H
 ATOM 1034 HA THRA 73157.952 3.443 9.309 1.00 0.00 H
 ATOM 1035 HB THRA 73156.736 3.951 12.015 1.00 0.00 H
 ATOM 1036 HG1 THRA 73157.472 5.918 12.018 1.00 0.00 H
 ATOM 1037 1HG2 THRA 73159.373 4.077 12.389 1.00 0.00 H
 ATOM 1038 2HG2 THRA 73159.331 2.978 11.011 1.00 0.00 H
 ATOM 1039 3HG2 THRA 73158.454 2.575 12.487 1.00 0.00 H
 ATOM 1040 N CYSA 74156.871 1.227 9.394 1.00 0.00 N
 ATOM 1041 CA CYSA 74156.282 -0.106 9.455 1.00 0.00 C
 ATOM 1042 C CYSA 74157.366 -1.179 9.459 1.00 0.00 C
 ATOM 1043 O CYSA 74158.558 -0.871 9.475 1.00 0.00 O
 ATOM 1044 CB CYSA 74155.336 -0.324 8.272 1.00 0.00 C
 ATOM 1045 SG CYSA 74153.626 0.165 8.594 1.00 0.00 S
 ATOM 1046 H CYSA 74157.652 1.380 8.821 1.00 0.00 H
 ATOM 1047 HA CYSA 74155.718 -0.177 10.373 1.00 0.00 H
 ATOM 1048 1HB CYSA 74155.688 0.251 7.429 1.00 0.00 H
 ATOM 1049 2HB CYSA 74155.336 -1.372 8.011 1.00 0.00 H
 ATOM 1050 HG CYSA 74153.519 0.260 9.543 1.00 0.00 H
 ATOM 1051 N ALAA 75156.944 -2.438 9.446 1.00 0.00 N
 ATOM 1052 CA ALAA 75157.878 -3.557 9.448 1.00 0.00 C
 ATOM 1053 C ALAA 75158.504 -3.753 8.071 1.00 0.00 C
 ATOM 1054 O ALAA 75158.021 -3.212 7.077 1.00 0.00 O
 ATOM 1055 CB ALAA 75157.177 -4.830 9.897 1.00 0.00 C
 ATOM 1056 H ALAA 75155.981 -2.620 9.434 1.00 0.00 H
 ATOM 1057 HA ALAA 75158.661 -3.336 10.159 1.00 0.00 H
 ATOM 1058 1HB ALAA 75156.438 -4.588 10.647 1.00 0.00 H

ATOM 1059 2HB ALA A 75157.902 -5.513 10.314 1.00 0.00 H
 ATOM 1060 3HB ALA A 75156.692 -5.292 9.049 1.00 0.00 H
 ATOM 1061 N LEU A 76159.581 -4.530 8.021 1.00 0.00 N
 ATOM 1062 CA LEU A 76160.273 -4.798 6.765 1.00 0.00 C
 ATOM 1063 C LEU A 76159.514 -5.828 5.935 1.00 0.00 C
 ATOM 1064 O LEU A 76158.956 -6.784 6.473 1.00 0.00 O
 ATOM 1065 CB LEU A 76161.695 -5.292 7.037 1.00 0.00 C
 ATOM 1066 CG LEU A 76162.712 -4.195 7.352 1.00 0.00 C
 ATOM 1067 CD1 LEU A 76163.770 -4.708 8.317 1.00 0.00 C
 ATOM 1068 CD2 LEU A 76163.358 -3.686 6.072 1.00 0.00 C
 ATOM 1069 H LEU A 76159.919 -4.933 8.848 1.00 0.00 H
 ATOM 1070 HA LEU A 76160.323 -3.872 6.212 1.00 0.00 H
 ATOM 1071 1HB LEU A 76161.661 -5.975 7.874 1.00 0.00 H
 ATOM 1072 2HB LEU A 76162.038 -5.832 6.168 1.00 0.00 H
 ATOM 1073 HG LEU A 76162.204 -3.366 7.824 1.00 0.00 H
 ATOM 1074 1HD1 LEU A 76164.717 -4.240 8.096 1.00 0.00 H
 ATOM 1075 2HD1 LEU A 76163.865 -5.779 8.210 1.00 0.00 H
 ATOM 1076 3HD1 LEU A 76163.478 -4.472 9.330 1.00 0.00 H
 ATOM 1077 1HD2 LEU A 76162.688 -3.851 5.241 1.00 0.00 H
 ATOM 1078 2HD2 LEU A 76164.282 -4.216 5.899 1.00 0.00 H
 ATOM 1079 3HD2 LEU A 76163.562 -2.630 6.166 1.00 0.00 H
 ATOM 1080 N LYS A 77159.498 -5.627 4.621 1.00 0.00 N
 ATOM 1081 CA LYS A 77158.807 -6.538 3.716 1.00 0.00 C
 ATOM 1082 C LYS A 77157.311 -6.563 4.005 1.00 0.00 C
 ATOM 1083 O LYS A 77156.676 -7.618 3.962 1.00 0.00 O
 ATOM 1084 CB LYS A 77159.387 -7.948 3.836 1.00 0.00 C
 ATOM 1085 CG LYS A 77160.907 -7.984 3.832 1.00 0.00 C
 ATOM 1086 CD LYS A 77161.469 -7.583 2.478 1.00 0.00 C
 ATOM 1087 CE LYS A 77162.944 -7.228 2.570 1.00 0.00 C
 ATOM 1088 NZ LYS A 77163.150 -5.792 2.908 1.00 0.00 N
 ATOM 1089 H LYS A 77159.962 -4.846 4.252 1.00 0.00 H

ATOM	1090	HA	LYS A	77158.960	-6.181	2.707	1.00	0.00	H
ATOM	1091	1HB	LYS A	77159.041	-8.389	4.760	1.00	0.00	H
ATOM	1092	2HB	LYS A	77159.033	-8.544	3.008	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.275	-7.299	4.580	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.235	-8.987	4.066	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.351	-8.408	1.791	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.924	-6.726	2.112	1.00	0.00	H
ATOM	1097	1HE	LYS A	77163.401	-7.837	3.337	1.00	0.00	H
ATOM	1098	2HE	LYS A	77163.412	-7.436	1.619	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77163.311	-5.241	2.041	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77163.976	-5.686	3.531	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77162.312	-5.416	3.395	1.00	0.00	H
ATOM	1102	N	LYS A	78156.750	-5.395	4.301	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.326	-5.284	4.597	1.00	0.00	C
ATOM	1104	C	LYS A	78154.793	-3.911	4.198	1.00	0.00	C
ATOM	1105	O	LYS A	78153.981	-3.318	4.908	1.00	0.00	O
ATOM	1106	CB	LYS A	78155.074	-5.529	6.086	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.640	-6.847	6.590	1.00	0.00	C
ATOM	1108	CD	LYS A	78155.270	-7.094	8.043	1.00	0.00	C
ATOM	1109	CE	LYS A	78154.151	-8.116	8.169	1.00	0.00	C
ATOM	1110	NZ	LYS A	78153.312	-7.875	9.376	1.00	0.00	N
ATOM	1111	H	LYS A	78157.306	-4.589	4.318	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.809	-6.038	4.024	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.525	-4.728	6.653	1.00	0.00	H
ATOM	1114	2HB	LYS A	78154.009	-5.529	6.264	1.00	0.00	H
ATOM	1115	1HG	LYS A	78155.244	-7.651	5.986	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.716	-6.823	6.500	1.00	0.00	H
ATOM	1117	1HD	LYS A	78156.139	-7.463	8.568	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.947	-6.164	8.487	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.526	-8.055	7.291	1.00	0.00	H
ATOM	1120	2HE	LYS A	78154.586	-9.102	8.234	1.00	0.00	H

ATOM	1121	IHZ	LYS A	78153.289	-6.859	9.599	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78153.703	-8.388	10.191	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78152.341	-8.205	9.207	1.00	0.00	H
ATOM	1124	N	ALAA	79155.255	-3.413	3.056	1.00	0.00	N
ATOM	1125	CA	ALAA	79154.824	-2.111	2.561	1.00	0.00	C
ATOM	1126	C	ALAA	79154.652	-2.129	1.047	1.00	0.00	C
ATOM	1127	O	ALAA	79155.630	-2.201	0.301	1.00	0.00	O
ATOM	1128	CB	ALAA	79155.822	-1.036	2.968	1.00	0.00	C
ATOM	1129	H	ALAA	79155.901	-3.932	2.534	1.00	0.00	H
ATOM	1130	HA	ALAA	79153.874	-1.878	3.019	1.00	0.00	H
ATOM	1131	1HB	ALAA	79155.857	-0.270	2.207	1.00	0.00	H
ATOM	1132	2HB	ALAA	79156.801	-1.477	3.080	1.00	0.00	H
ATOM	1133	3HB	ALAA	79155.515	-0.597	3.906	1.00	0.00	H
ATOM	1134	N	LEU A	80153.404	-2.063	0.597	1.00	0.00	N
ATOM	1135	CA	LEU A	80153.103	-2.072	-0.829	1.00	0.00	C
ATOM	1136	C	LEU A	80152.276	-0.851	-1.218	1.00	0.00	C
ATOM	1137	O	LEU A	80151.095	-0.756	-0.884	1.00	0.00	O
ATOM	1138	CB	LEU A	80152.352	-3.352	-1.205	1.00	0.00	C
ATOM	1139	CG	LEU A	80151.922	-3.444	-2.670	1.00	0.00	C
ATOM	1140	CD1	LEU A	80153.135	-3.587	-3.575	1.00	0.00	C
ATOM	1141	CD2	LEU A	80150.964	-4.609	-2.871	1.00	0.00	C
ATOM	1142	H	LEU A	80152.667	-2.007	1.240	1.00	0.00	H
ATOM	1143	HA	LEU A	80154.039	-2.044	-1.367	1.00	0.00	H
ATOM	1144	1HB	LEU A	80152.990	-4.195	-0.985	1.00	0.00	H
ATOM	1145	2HB	LEU A	80151.468	-3.420	-0.589	1.00	0.00	H
ATOM	1146	HG	LEU A	80151.406	-2.535	-2.944	1.00	0.00	H
ATOM	1147	1HD1	LEU A	80152.858	-4.131	-4.466	1.00	0.00	H
ATOM	1148	2HD1	LEU A	80153.913	-4.124	-3.052	1.00	0.00	H
ATOM	1149	3HD1	LEU A	80153.497	-2.607	-3.850	1.00	0.00	H
ATOM	1150	1HD2	LEU A	80151.527	-5.499	-3.113	1.00	0.00	H
ATOM	1151	2HD2	LEU A	80150.285	-4.382	-3.679	1.00	0.00	H

ATOM	1152	3HD2	LEU A	80150.403	-4.774	-1.963	1.00	0.00	H
ATOM	1153	N	PHE A	81152.905	0.081	-1.927	1.00	0.00	N
ATOM	1154	CA	PHE A	81152.227	1.297	-2.362	1.00	0.00	C
ATOM	1155	C	PHE A	81151.405	1.041	-3.622	1.00	0.00	C
ATOM	1156	O	PHE A	81151.884	0.420	-4.571	1.00	0.00	O
ATOM	1157	CB	PHE A	81153.246	2.408	-2.621	1.00	0.00	C
ATOM	1158	CG	PHE A	81153.856	2.967	-1.367	1.00	0.00	C
ATOM	1159	CD1	PHE A	81153.201	3.948	-0.640	1.00	0.00	C
ATOM	1160	CD2	PHE A	81155.084	2.511	-0.916	1.00	0.00	C
ATOM	1161	CE1	PHE A	81153.759	4.463	0.514	1.00	0.00	C
ATOM	1162	CE2	PHE A	81155.649	3.023	0.237	1.00	0.00	C
ATOM	1163	CZ	PHE A	81154.985	4.000	0.953	1.00	0.00	C
ATOM	1164	H	PHE A	81153.846	-0.052	-2.164	1.00	0.00	H
ATOM	1165	HA	PHE A	81151.563	1.607	-1.570	1.00	0.00	H
ATOM	1166	1HB	PHE A	81154.045	2.019	-3.234	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.759	3.218	-3.145	1.00	0.00	H
ATOM	1168	HD1	PHE A	81152.243	4.310	-0.982	1.00	0.00	H
ATOM	1169	HD2	PHE A	81155.604	1.747	-1.476	1.00	0.00	H
ATOM	1170	HE1	PHE A	81153.240	5.228	1.072	1.00	0.00	H
ATOM	1171	HE2	PHE A	81156.607	2.659	0.578	1.00	0.00	H
ATOM	1172	HZ	PHE A	81155.424	4.401	1.854	1.00	0.00	H
ATOM	1173	N	VAL A	82150.167	1.524	-3.623	1.00	0.00	N
ATOM	1174	CA	VAL A	82149.280	1.347	-4.765	1.00	0.00	C
ATOM	1175	C	VAL A	82148.315	2.521	-4.898	1.00	0.00	C
ATOM	1176	O	VAL A	82148.180	3.332	-3.983	1.00	0.00	O
ATOM	1177	CB	VAL A	82148.470	0.042	-4.652	1.00	0.00	C
ATOM	1178	CG1	VAL A	82149.379	-1.166	-4.809	1.00	0.00	C
ATOM	1179	CG2	VAL A	82147.724	-0.010	-3.327	1.00	0.00	C
ATOM	1180	H	VAL A	82149.843	2.010	-2.836	1.00	0.00	H
ATOM	1181	HA	VAL A	82149.889	1.292	-5.656	1.00	0.00	H
ATOM	1182	HB	VAL A	82147.742	-0.022	-5.450	1.00	0.00	H

ATOM 1183 1HG1 VAL A 82150.018 -1.028 -5.668 1.00 0.00 H
 ATOM 1184 2HG1 VAL A 82148.779 -2.054 -4.947 1.00 0.00 H
 ATOM 1185 3HG1 VAL A 82149.987 -1.278 -3.923 1.00 0.00 H
 ATOM 1186 1HG2 VAL A 82147.242 -0.971 -3.223 1.00 0.00 H
 ATOM 1187 2HG2 VAL A 82146.979 0.771 -3.303 1.00 0.00 H
 ATOM 1188 3HG2 VAL A 82148.422 0.131 -2.515 1.00 0.00 H
 ATOM 1189 N LYS A 83147.645 2.602 -6.043 1.00 0.00 N
 ATOM 1190 CA LYS A 83146.693 3.677 -6.295 1.00 0.00 C
 ATOM 1191 C LYS A 83145.494 3.573 -5.358 1.00 0.00 C
 ATOM 1192 O LYS A 83144.809 2.552 -5.318 1.00 0.00 O
 ATOM 1193 CB LYS A 83146.223 3.638 -7.751 1.00 0.00 C
 ATOM 1194 CG LYS A 83147.353 3.770 -8.758 1.00 0.00 C
 ATOM 1195 CD LYS A 83146.881 3.453 -10.168 1.00 0.00 C
 ATOM 1196 CE LYS A 83147.739 4.151 -11.212 1.00 0.00 C
 ATOM 1197 NZ LYS A 83148.766 3.239 -11.787 1.00 0.00 N
 ATOM 1198 H LYS A 83147.796 1.924 -6.735 1.00 0.00 H
 ATOM 1199 HA LYS A 83147.196 4.615 -6.114 1.00 0.00 H
 ATOM 1200 1HB LYS A 83145.717 2.701 -7.929 1.00 0.00 H
 ATOM 1201 2HB LYS A 83145.528 4.449 -7.914 1.00 0.00 H
 ATOM 1202 1HG LYS A 83147.728 4.782 -8.734 1.00 0.00 H
 ATOM 1203 2HG LYS A 83148.143 3.085 -8.489 1.00 0.00 H
 ATOM 1204 1HD LYS A 83146.938 2.386 -10.325 1.00 0.00 H
 ATOM 1205 2HD LYS A 83145.858 3.782 -10.277 1.00 0.00 H
 ATOM 1206 1HE LYS A 83147.099 4.504 -12.007 1.00 0.00 H
 ATOM 1207 2HE LYS A 83148.234 4.991 -10.749 1.00 0.00 H
 ATOM 1208 1HZ LYS A 83148.971 2.466 -11.121 1.00 0.00 H
 ATOM 1209 2HZ LYS A 83149.645 3.761 -11.974 1.00 0.00 H
 ATOM 1210 3HZ LYS A 83148.422 2.831 -12.680 1.00 0.00 H
 ATOM 1211 N LEU A 84145.250 4.640 -4.605 1.00 0.00 N
 ATOM 1212 CA LEU A 84144.136 4.675 -3.666 1.00 0.00 C
 ATOM 1213 C LEU A 84142.808 4.456 -4.384 1.00 0.00 C

ATOM	1214	O	LEU A	84141.894	3.832	-3.844	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.115	6.015	-2.924	1.00	0.00	C
ATOM	1216	CG	LEU A	84142.921	6.222	-1.990	1.00	0.00	C
ATOM	1217	CD1	LEU A	84143.105	5.434	-0.703	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.732	7.702	-1.689	1.00	0.00	C
ATOM	1219	H	LEU A	84145.833	5.423	-4.683	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.280	3.880	-2.950	1.00	0.00	H
ATOM	1221	1HB	LEU A	84145.020	6.091	-2.340	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.112	6.807	-3.658	1.00	0.00	H
ATOM	1223	HG	LEU A	84142.025	5.863	-2.476	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84142.152	5.045	-0.380	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84143.508	6.082	0.061	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84143.789	4.616	-0.878	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84142.418	8.215	-2.586	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84143.667	8.121	-1.345	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84141.981	7.821	-0.924	1.00	0.00	H
ATOM	1230	N	LYS A	85142.708	4.971	-5.606	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.491	4.830	-6.398	1.00	0.00	C
ATOM	1232	C	LYS A	85141.220	3.365	-6.728	1.00	0.00	C
ATOM	1233	O	LYS A	85140.075	2.975	-6.956	1.00	0.00	O
ATOM	1234	CB	LYS A	85141.602	5.645	-7.688	1.00	0.00	C
ATOM	1235	CG	LYS A	85142.793	5.264	-8.549	1.00	0.00	C
ATOM	1236	CD	LYS A	85143.264	6.434	-9.398	1.00	0.00	C
ATOM	1237	CE	LYS A	85144.650	6.186	-9.970	1.00	0.00	C
ATOM	1238	NZ	LYS A	85145.138	7.346	-10.766	1.00	0.00	N
ATOM	1239	H	LYS A	85143.471	5.458	-5.982	1.00	0.00	H
ATOM	1240	HA	LYS A	85140.670	5.213	-5.811	1.00	0.00	H
ATOM	1241	1HB	LYS A	85140.702	5.500	-8.269	1.00	0.00	H
ATOM	1242	2HB	LYS A	85141.690	6.691	-7.433	1.00	0.00	H
ATOM	1243	1HG	LYS A	85143.602	4.949	-7.909	1.00	0.00	H
ATOM	1244	2HG	LYS A	85142.509	4.449	-9.200	1.00	0.00	H

ATOM	1245	1HD	LYS A	85142.570	6.576	-10.214	1.00	0.00	H
ATOM	1246	2HD	LYS A	85143.289	7.323	-8.786	1.00	0.00	H
ATOM	1247	1HE	LYS A	85145.335	6.008	-9.154	1.00	0.00	H
ATOM	1248	2HE	LYS A	85144.613	5.314	-10.605	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85146.175	7.409	-10.708	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85144.728	8.229	-10.401	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85144.863	7.236	-11.763	1.00	0.00	H
ATOM	1252	N	SER A	86142.277	2.559	-6.753	1.00	0.00	N
ATOM	1253	CA	SER A	86142.146	1.139	-7.057	1.00	0.00	C
ATOM	1254	C	SER A	86142.102	0.309	-5.777	1.00	0.00	C
ATOM	1255	O	SER A	86142.605	-0.814	-5.737	1.00	0.00	O
ATOM	1256	CB	SER A	86143.308	0.676	-7.938	1.00	0.00	C
ATOM	1257	OG	SER A	86143.567	1.608	-8.973	1.00	0.00	O
ATOM	1258	H	SER A	86143.165	2.928	-6.563	1.00	0.00	H
ATOM	1259	HA	SER A	86141.220	0.999	-7.594	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.197	0.572	-7.334	1.00	0.00	H
ATOM	1261	2HB	SER A	86143.062	-0.278	-8.382	1.00	0.00	H
ATOM	1262	HG	SER A	86143.066	1.365	-9.755	1.00	0.00	H
ATOM	1263	N	CYS A	87141.498	0.868	-4.734	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.387	0.180	-3.453	1.00	0.00	C
ATOM	1265	C	CYS A	87139.928	-0.097	-3.109	1.00	0.00	C
ATOM	1266	O	CYS A	87139.021	0.538	-3.648	1.00	0.00	O
ATOM	1267	CB	CYS A	87142.036	1.012	-2.345	1.00	0.00	C
ATOM	1268	SG	CYS A	87143.843	1.034	-2.401	1.00	0.00	S
ATOM	1269	H	CYS A	87141.116	1.766	-4.828	1.00	0.00	H
ATOM	1270	HA	CYS A	87141.910	-0.761	-3.537	1.00	0.00	H
ATOM	1271	1HB	CYS A	87141.693	2.032	-2.424	1.00	0.00	H
ATOM	1272	2HB	CYS A	87141.740	0.613	-1.386	1.00	0.00	H
ATOM	1273	HG	CYS A	87144.122	0.522	-3.164	1.00	0.00	H
ATOM	1274	N	ARG A	88139.706	-1.049	-2.208	1.00	0.00	N
ATOM	1275	CA	ARG A	88138.356	-1.408	-1.793	1.00	0.00	C

ATOM	1276	C	ARG A	88138.267	-1.531	-0.272	1.00	0.00	C
ATOM	1277	O	ARG A	88139.211	-1.983	0.376	1.00	0.00	O
ATOM	1278	CB	ARG A	88137.932	-2.723	-2.448	1.00	0.00	C
ATOM	1279	CG	ARG A	88137.230	-2.538	-3.784	1.00	0.00	C
ATOM	1280	CD	ARG A	88135.718	-2.566	-3.627	1.00	0.00	C
ATOM	1281	NE	ARG A	88135.059	-3.157	-4.789	1.00	0.00	N
ATOM	1282	CZ	ARG A	88135.003	-2.577	-5.985	1.00	0.00	C
ATOM	1283	NH1	ARG A	88135.566	-1.391	-6.183	1.00	0.00	N
ATOM	1284	NH2	ARG A	88134.382	-3.184	-6.987	1.00	0.00	N
ATOM	1285	H	ARG A	88140.470	-1.520	-1.812	1.00	0.00	H
ATOM	1286	HA	ARG A	88137.691	-0.623	-2.119	1.00	0.00	H
ATOM	1287	1HB	ARG A	88138.810	-3.332	-2.608	1.00	0.00	H
ATOM	1288	2HB	ARG A	88137.260	-3.244	-1.782	1.00	0.00	H
ATOM	1289	1HG	ARG A	88137.521	-1.587	-4.204	1.00	0.00	H
ATOM	1290	2HG	ARG A	88137.529	-3.335	-4.449	1.00	0.00	H
ATOM	1291	1HD	ARG A	88135.471	-3.146	-2.750	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.364	-1.553	-3.501	1.00	0.00	H
ATOM	1293	HE	ARG A	88134.634	-4.033	-4.672	1.00	0.00	H
ATOM	1294	1HH1	ARG A	88136.035	-0.928	-5.431	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88135.520	-0.961	-7.084	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88133.956	-4.077	-6.844	1.00	0.00	H
ATOM	1297	2HH2	ARG A	88134.340	-2.748	-7.887	1.00	0.00	H
ATOM	1298	N	PRO A	89137.126	-1.131	0.319	1.00	0.00	N
ATOM	1299	CA	PRO A	89136.924	-1.201	1.769	1.00	0.00	C
ATOM	1300	C	PRO A	89137.168	-2.603	2.320	1.00	0.00	C
ATOM	1301	O	PRO A	89136.530	-3.566	1.898	1.00	0.00	O
ATOM	1302	CB	PRO A	89135.455	-0.807	1.948	1.00	0.00	C
ATOM	1303	CG	PRO A	89135.126	-0.003	0.740	1.00	0.00	C
ATOM	1304	CD	PRO A	89135.949	-0.581	-0.377	1.00	0.00	C
ATOM	1305	HA	PRO A	89137.555	-0.497	2.291	1.00	0.00	H
ATOM	1306	1HB	PRO A	89134.846	-1.698	2.009	1.00	0.00	H

ATOM	1307	2HB	PRO A	89135.343	-0.225	2.851	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.074	-0.091	0.515	1.00	0.00	H
ATOM	1309	2HG	PRO A	89135.390	1.031	0.903	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.401	-1.361	-0.886	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.239	0.195	-1.072	1.00	0.00	H
ATOM	1312	N	ASPA	90138.095	-2.707	3.267	1.00	0.00	N
ATOM	1313	CA	ASPA	90138.422	-3.991	3.877	1.00	0.00	C
ATOM	1314	C	ASPA	90137.795	-4.110	5.262	1.00	0.00	C
ATOM	1315	O	ASPA	90138.296	-3.540	6.232	1.00	0.00	O
ATOM	1316	CB	ASPA	90139.940	-4.160	3.977	1.00	0.00	C
ATOM	1317	CG	ASPA	90140.365	-5.614	3.896	1.00	0.00	C
ATOM	1318	OD1	ASPA	90139.547	-6.492	4.244	1.00	0.00	O
ATOM	1319	OD2	ASPA	90141.516	-5.873	3.485	1.00	0.00	O
ATOM	1320	H	ASPA	90138.570	-1.902	3.563	1.00	0.00	H
ATOM	1321	HA	ASPA	90138.023	-4.769	3.245	1.00	0.00	H
ATOM	1322	1HB	ASPA	90140.410	-3.622	3.168	1.00	0.00	H
ATOM	1323	2HB	ASPA	90140.279	-3.756	4.919	1.00	0.00	H
ATOM	1324	N	SERA	91136.695	-4.850	5.346	1.00	0.00	N
ATOM	1325	CA	SERA	91135.997	-5.042	6.613	1.00	0.00	C
ATOM	1326	C	SERA	91136.378	-6.376	7.247	1.00	0.00	C
ATOM	1327	O	SERA	91135.575	-6.993	7.947	1.00	0.00	O
ATOM	1328	CB	SERA	91134.485	-4.978	6.401	1.00	0.00	C
ATOM	1329	OG	SERA	91133.828	-4.483	7.554	1.00	0.00	O
ATOM	1330	H	SERA	91136.343	-5.278	4.537	1.00	0.00	H
ATOM	1331	HA	SERA	91136.293	-4.243	7.277	1.00	0.00	H
ATOM	1332	1HB	SERA	91134.267	-4.326	5.569	1.00	0.00	H
ATOM	1333	2HB	SERA	91134.112	-5.970	6.187	1.00	0.00	H
ATOM	1334	HG	SERA	91133.100	-5.065	7.784	1.00	0.00	H
ATOM	1335	N	ARGA	92137.608	-6.815	6.999	1.00	0.00	N
ATOM	1336	CA	ARGA	92138.093	-8.076	7.546	1.00	0.00	C
ATOM	1337	C	ARGA	92138.164	-8.018	9.069	1.00	0.00	C

ATOM 1338 O ARG A 92137.993 -9.030 9.748 1.00 0.00 O
 ATOM 1339 CB ARG A 92139.471 -8.409 6.972 1.00 0.00 C
 ATOM 1340 CG ARG A 92139.416 -9.230 5.695 1.00 0.00 C
 ATOM 1341 CD ARG A 92139.022 -10.671 5.976 1.00 0.00 C
 ATOM 1342 NE ARG A 92137.589 -10.891 5.797 1.00 0.00 N
 ATOM 1343 CZ ARG A 92137.005 -11.048 4.612 1.00 0.00 C
 ATOM 1344 NH1 ARG A 92137.727 -11.011 3.498 1.00 0.00 N
 ATOM 1345 NH2 ARG A 92135.696 -11.243 4.538 1.00 0.00 N
 ATOM 1346 H ARG A 92138.202 -6.278 6.434 1.00 0.00 H
 ATOM 1347 HA ARG A 92137.398 -8.851 7.260 1.00 0.00 H
 ATOM 1348 1HB ARG A 92139.992 -7.486 6.760 1.00 0.00 H
 ATOM 1349 2HB ARG A 92140.030 -8.966 7.709 1.00 0.00 H
 ATOM 1350 1HG ARG A 92138.688 -8.792 5.028 1.00 0.00 H
 ATOM 1351 2HG ARG A 92140.390 -9.216 5.227 1.00 0.00 H
 ATOM 1352 1HD ARG A 92139.562 -11.318 5.300 1.00 0.00 H
 ATOM 1353 2HD ARG A 92139.290 -10.912 6.994 1.00 0.00 H
 ATOM 1354 HE ARG A 92137.032 -10.923 6.603 1.00 0.00 H
 ATOM 1355 1HH1 ARG A 92138.714 -10.864 3.546 1.00 0.00 H
 ATOM 1356 2HH1 ARG A 92137.282 -11.130 2.611 1.00 0.00 H
 ATOM 1357 1HH2 ARG A 92135.147 -11.273 5.374 1.00 0.00 H
 ATOM 1358 2HH2 ARG A 92135.256 -11.362 3.648 1.00 0.00 H
 ATOM 1359 N PHE A 93138.419 -6.825 9.599 1.00 0.00 N
 ATOM 1360 CA PHE A 93138.513 -6.636 11.042 1.00 0.00 C
 ATOM 1361 C PHE A 93137.293 -5.889 11.574 1.00 0.00 C
 ATOM 1362 O PHE A 93137.385 -5.153 12.557 1.00 0.00 O
 ATOM 1363 CB PHE A 93139.788 -5.868 11.393 1.00 0.00 C
 ATOM 1364 CG PHE A 93141.045 -6.662 11.179 1.00 0.00 C
 ATOM 1365 CD1 PHE A 93141.370 -7.144 9.921 1.00 0.00 C
 ATOM 1366 CD2 PHE A 93141.902 -6.927 12.236 1.00 0.00 C
 ATOM 1367 CE1 PHE A 93142.526 -7.875 9.721 1.00 0.00 C
 ATOM 1368 CE2 PHE A 93143.059 -7.658 12.041 1.00 0.00 C

ATOM 1369 CZ PHE A 93143.371 -8.132 10.782 1.00 0.00 C
 ATOM 1370 H PHE A 93138.546 -6.056 9.006 1.00 0.00 H
 ATOM 1371 HA PHE A 93138.552 -7.611 11.502 1.00 0.00 H
 ATOM 1372 1HB PHE A 93139.848 -4.982 10.780 1.00 0.00 H
 ATOM 1373 2HB PHE A 93139.751 -5.578 12.433 1.00 0.00 H
 ATOM 1374 HD1 PHE A 93140.710 -6.943 9.090 1.00 0.00 H
 ATOM 1375 HD2 PHE A 93141.658 -6.557 13.220 1.00 0.00 H
 ATOM 1376 HE1 PHE A 93142.768 -8.246 8.735 1.00 0.00 H
 ATOM 1377 HE2 PHE A 93143.718 -7.857 12.873 1.00 0.00 H
 ATOM 1378 HZ PHE A 93144.275 -8.704 10.629 1.00 0.00 H
 ATOM 1379 N ALAA 94136.153 -6.084 10.920 1.00 0.00 N
 ATOM 1380 CA ALAA 94134.917 -5.429 11.329 1.00 0.00 C
 ATOM 1381 C ALAA 94134.552 -5.791 12.766 1.00 0.00 C
 ATOM 1382 O ALAA 94134.390 -6.965 13.099 1.00 0.00 O
 ATOM 1383 CB ALAA 94133.784 -5.803 10.384 1.00 0.00 C
 ATOM 1384 H ALAA 94136.142 -6.682 10.143 1.00 0.00 H
 ATOM 1385 HA ALAA 94135.069 -4.361 11.267 1.00 0.00 H
 ATOM 1386 1HB ALAA 94134.071 -6.665 9.802 1.00 0.00 H
 ATOM 1387 2HB ALAA 94133.579 -4.974 9.722 1.00 0.00 H
 ATOM 1388 3HB ALAA 94132.897 -6.034 10.956 1.00 0.00 H
 ATOM 1389 N SERA 95134.426 -4.775 13.614 1.00 0.00 N
 ATOM 1390 CA SERA 95134.082 -4.987 15.014 1.00 0.00 C
 ATOM 1391 C SERA 95132.642 -4.567 15.290 1.00 0.00 C
 ATOM 1392 O SERA 95132.089 -3.714 14.596 1.00 0.00 O
 ATOM 1393 CB SERA 95135.036 -4.205 15.920 1.00 0.00 C
 ATOM 1394 OG SERA 95136.145 -5.000 16.300 1.00 0.00 O
 ATOM 1395 H SERA 95134.568 -3.861 13.289 1.00 0.00 H
 ATOM 1396 HA SERA 95134.184 -6.041 15.225 1.00 0.00 H
 ATOM 1397 1HB SERA 95135.397 -3.335 15.392 1.00 0.00 H
 ATOM 1398 2HB SERA 95134.509 -3.893 16.809 1.00 0.00 H
 ATOM 1399 HG SERA 95136.483 -5.467 15.533 1.00 0.00 H

ATOM 1400 N LEU A 96132.039 -5.172 16.308 1.00 0.00 N
 ATOM 1401 CA LEU A 96130.663 -4.861 16.676 1.00 0.00 C
 ATOM 1402 C LEU A 96130.285 -5.533 17.992 1.00 0.00 C
 ATOM 1403 O LEU A 96129.953 -6.718 18.023 1.00 0.00 O
 ATOM 1404 CB LEU A 96129.704 -5.307 15.570 1.00 0.00 C
 ATOM 1405 CG LEU A 96128.495 -4.395 15.355 1.00 0.00 C
 ATOM 1406 CD1 LEU A 96127.882 -4.636 13.984 1.00 0.00 C
 ATOM 1407 CD2 LEU A 96127.462 -4.613 16.450 1.00 0.00 C
 ATOM 1408 H LEU A 96132.531 -5.845 16.825 1.00 0.00 H
 ATOM 1409 HA LEU A 96130.586 -3.792 16.797 1.00 0.00 H
 ATOM 1410 1HB LEU A 96130.258 -5.361 14.644 1.00 0.00 H
 ATOM 1411 2HB LEU A 96129.341 -6.295 15.812 1.00 0.00 H
 ATOM 1412 HG LEU A 96128.817 -3.364 15.399 1.00 0.00 H
 ATOM 1413 1HD1 LEU A 96128.625 -5.066 13.328 1.00 0.00 H
 ATOM 1414 2HD1 LEU A 96127.538 -3.698 13.573 1.00 0.00 H
 ATOM 1415 3HD1 LEU A 96127.048 -5.315 14.077 1.00 0.00 H
 ATOM 1416 1HD2 LEU A 96127.130 -5.641 16.431 1.00 0.00 H
 ATOM 1417 2HD2 LEU A 96126.618 -3.960 16.283 1.00 0.00 H
 ATOM 1418 3HD2 LEU A 96127.903 -4.395 17.410 1.00 0.00 H
 ATOM 1419 N GLN A 97130.339 -4.769 19.079 1.00 0.00 N
 ATOM 1420 CA GLN A 97130.002 -5.290 20.398 1.00 0.00 C
 ATOM 1421 C GLN A 97130.929 -6.442 20.781 1.00 0.00 C
 ATOM 1422 O GLN A 97131.595 -7.024 19.925 1.00 0.00 O
 ATOM 1423 CB GLN A 97128.547 -5.759 20.427 1.00 0.00 C
 ATOM 1424 CG GLN A 97127.566 -4.676 20.847 1.00 0.00 C
 ATOM 1425 CD GLN A 97126.204 -4.841 20.203 1.00 0.00 C
 ATOM 1426 OE1 GLN A 97126.054 -4.681 18.992 1.00 0.00 O
 ATOM 1427 NE2 GLN A 97125.201 -5.162 21.013 1.00 0.00 N
 ATOM 1428 H GLN A 97130.611 -3.831 18.990 1.00 0.00 H
 ATOM 1429 HA GLN A 97130.127 -4.490 21.112 1.00 0.00 H
 ATOM 1430 1HB GLN A 97128.271 -6.100 19.441 1.00 0.00 H

ATOM 1431 2HB GLN A 97128.459 -6.583 21.121 1.00 0.00 H
 ATOM 1432 1HG GLN A 97127.447 -4.713 21.920 1.00 0.00 H
 ATOM 1433 2HG GLN A 97127.970 -3.714 20.564 1.00 0.00 H
 ATOM 1434 1HE2 GLN A 97125.395 -5.274 21.967 1.00 0.00 H
 ATOM 1435 2HE2 GLN A 97124.310 -5.275 20.622 1.00 0.00 H
 ATOM 1436 N PRO A 98130.983 -6.785 22.080 1.00 0.00 N
 ATOM 1437 CA PRO A 98131.833 -7.874 22.573 1.00 0.00 C
 ATOM 1438 C PRO A 98131.336 -9.245 22.127 1.00 0.00 C
 ATOM 1439 O PRO A 98130.179 -9.599 22.350 1.00 0.00 O
 ATOM 1440 CB PRO A 98131.737 -7.739 24.095 1.00 0.00 C
 ATOM 1441 CG PRO A 98130.430 -7.067 24.333 1.00 0.00 C
 ATOM 1442 CD PRO A 98130.221 -6.142 23.166 1.00 0.00 C
 ATOM 1443 HA PRO A 98132.859 -7.746 22.261 1.00 0.00 H
 ATOM 1444 1HB PRO A 98131.767 -8.720 24.548 1.00 0.00 H
 ATOM 1445 2HB PRO A 98132.560 -7.142 24.459 1.00 0.00 H
 ATOM 1446 1HG PRO A 98129.641 -7.804 24.375 1.00 0.00 H
 ATOM 1447 2HG PRO A 98130.469 -6.504 25.254 1.00 0.00 H
 ATOM 1448 1HD PRO A 98129.171 -6.080 22.917 1.00 0.00 H
 ATOM 1449 2HD PRO A 98130.617 -5.162 23.386 1.00 0.00 H
 ATOM 1450 N SER A 99132.218 -10.012 21.495 1.00 0.00 N
 ATOM 1451 CA SER A 99131.868 -11.344 21.017 1.00 0.00 C
 ATOM 1452 C SER A 99132.957 -12.352 21.371 1.00 0.00 C
 ATOM 1453 O SER A 99132.687 -13.383 21.987 1.00 0.00 O
 ATOM 1454 CB SER A 99131.648 -11.324 19.503 1.00 0.00 C
 ATOM 1455 OG SER A 99132.444 -10.328 18.884 1.00 0.00 O
 ATOM 1456 H SER A 99133.126 -9.673 21.346 1.00 0.00 H
 ATOM 1457 HA SER A 99130.950 -11.639 21.502 1.00 0.00 H
 ATOM 1458 1HB SER A 99131.914 -12.287 19.091 1.00 0.00 H
 ATOM 1459 2HB SER A 99130.608 -11.119 19.296 1.00 0.00 H
 ATOM 1460 HG SER A 99131.881 -9.611 18.582 1.00 0.00 H
 ATOM 1461 N GLY A 100134.190 -12.047 20.978 1.00 0.00 N

ATOM 1462 CA GLY A 100135.300 -12.936 21.263 1.00 0.00 C
 ATOM 1463 C GLY A 100135.839 -12.759 22.670 1.00 0.00 C
 ATOM 1464 O GLY A 100135.168 -12.182 23.525 1.00 0.00 O
 ATOM 1465 H GLY A 100134.346 -11.212 20.491 1.00 0.00 H
 ATOM 1466 1HA GLY A 100134.970 -13.957 21.141 1.00 0.00 H
 ATOM 1467 2HA GLY A 100136.095 -12.740 20.557 1.00 0.00 H
 ATOM 1468 N PRO A 101137.062 -13.248 22.942 1.00 0.00 N
 ATOM 1469 CA PRO A 101137.680 -13.133 24.267 1.00 0.00 C
 ATOM 1470 C PRO A 101138.074 -11.697 24.600 1.00 0.00 C
 ATOM 1471 O PRO A 101137.812 -11.210 25.698 1.00 0.00 O
 ATOM 1472 CB PRO A 101138.926 -14.015 24.156 1.00 0.00 C
 ATOM 1473 CG PRO A 101139.252 -14.029 22.703 1.00 0.00 C
 ATOM 1474 CD PRO A 101137.934 -13.949 21.982 1.00 0.00 C
 ATOM 1475 HA PRO A 101137.032 -13.516 25.041 1.00 0.00 H
 ATOM 1476 1HB PRO A 101139.728 -13.586 24.738 1.00 0.00 H
 ATOM 1477 2HB PRO A 101138.701 -15.007 24.519 1.00 0.00 H
 ATOM 1478 1HG PRO A 101139.867 -13.176 22.456 1.00 0.00 H
 ATOM 1479 2HG PRO A 101139.762 -14.947 22.450 1.00 0.00 H
 ATOM 1480 1HD PRO A 101138.037 -13.382 21.069 1.00 0.00 H
 ATOM 1481 2HD PRO A 101137.558 -14.940 21.773 1.00 0.00 H
 ATOM 1482 N SER A 102138.704 -11.024 23.642 1.00 0.00 N
 ATOM 1483 CA SER A 102139.133 -9.644 23.833 1.00 0.00 C
 ATOM 1484 C SER A 102139.033 -8.858 22.530 1.00 0.00 C
 ATOM 1485 O SER A 102140.038 -8.608 21.865 1.00 0.00 O
 ATOM 1486 CB SER A 102140.569 -9.602 24.359 1.00 0.00 C
 ATOM 1487 OG SER A 102140.652 -10.160 25.659 1.00 0.00 O
 ATOM 1488 H SER A 102138.885 -11.467 22.786 1.00 0.00 H
 ATOM 1489 HA SER A 102138.479 -9.192 24.564 1.00 0.00 H
 ATOM 1490 1HB SER A 102141.209 -10.168 23.699 1.00 0.00 H
 ATOM 1491 2HB SER A 102140.907 -8.577 24.398 1.00 0.00 H
 ATOM 1492 HG SER A 102140.083 -9.667 26.256 1.00 0.00 H

ATOM 1493 N SERA 103137.813 -8.469 22.171 1.00 0.00 N
 ATOM 1494 CA SERA 103137.575 -7.710 20.947 1.00 0.00 C
 ATOM 1495 C SERA 103137.853 -8.562 19.712 1.00 0.00 C
 ATOM 1496 O SERA 103136.932 -8.955 18.997 1.00 0.00 O
 ATOM 1497 CB SERA 103138.444 -6.450 20.921 1.00 0.00 C
 ATOM 1498 OG SERA 103137.703 -5.328 20.472 1.00 0.00 O
 ATOM 1499 H SERA 103137.051 -8.699 22.744 1.00 0.00 H
 ATOM 1500 HA SERA 103136.535 -7.417 20.938 1.00 0.00 H
 ATOM 1501 1HB SERA 103138.809 -6.246 21.917 1.00 0.00 H
 ATOM 1502 2HB SERA 103139.280 -6.603 20.256 1.00 0.00 H
 ATOM 1503 HG SERA 103137.240 -5.554 19.662 1.00 0.00 H
 ATOM 1504 N GLY A 104139.130 -8.843 19.468 1.00 0.00 N
 ATOM 1505 CA GLY A 104139.505 -9.647 18.319 1.00 0.00 C
 ATOM 1506 C GLY A 104140.109 -8.818 17.205 1.00 0.00 C
 ATOM 1507 O GLY A 104141.142 -8.158 17.448 1.00 0.00 O
 ATOM 1508 OXT GLY A 104139.552 -8.828 16.087 1.00 0.00 O
 ATOM 1509 H GLY A 104139.822 -8.504 20.073 1.00 0.00 H
 ATOM 1510 1HA GLY A 104140.225 -10.388 18.633 1.00 0.00 H
 ATOM 1511 2HA GLY A 104138.626 -10.150 17.943 1.00 0.00 H
 TER 1512 GLY A 104
 ENDMDL

Three-Dimensional Structure Coordinate Table 3

ATOM 1 N GLY A 1125.212 27.334 -8.433 1.00 0.00 N
 ATOM 2 CA GLY A 1126.127 26.226 -8.041 1.00 0.00 C
 ATOM 3 C GLY A 1126.734 25.523 -9.238 1.00 0.00 C
 ATOM 4 O GLY A 1126.538 24.322 -9.426 1.00 0.00 O
 ATOM 5 1H GLY A 1125.466 27.688 -9.377 1.00 0.00 H
 ATOM 6 2H GLY A 1125.283 28.114 -7.751 1.00 0.00 H
 ATOM 7 3H GLY A 1124.229 26.994 -8.455 1.00 0.00 H
 ATOM 8 1HA GLY A 1126.923 26.630 -7.432 1.00 0.00 H

ATOM9 2HA GLY A 1125.572 25.506 -7.457 1.00 0.00 H
 ATOM10 N SER A 2127.472 26.272 -10.049 1.00 0.00 N
 ATOM11 CA SER A 2128.110 25.713 -11.236 1.00 0.00 C
 ATOM12 C SER A 2129.203 24.723 -10.851 1.00 0.00 C
 ATOM13 O SER A 2129.120 23.536 -11.169 1.00 0.00 O
 ATOM14 CB SER A 2128.700 26.831 -12.098 1.00 0.00 C
 ATOM15 OG SER A 2127.762 27.284 -13.059 1.00 0.00 O
 ATOM16 H SER A 2127.592 27.223 -9.846 1.00 0.00 H
 ATOM17 HA SER A 2127.354 25.193 -11.805 1.00 0.00 H
 ATOM18 1HB SER A 2128.978 27.662 -11.466 1.00 0.00 H
 ATOM19 2HB SER A 2129.575 26.461 -12.613 1.00 0.00 H
 ATOM20 HG SER A 2127.770 28.243 -13.087 1.00 0.00 H
 ATOM21 N SER A 3130.228 25.217 -10.164 1.00 0.00 N
 ATOM22 CA SER A 3131.338 24.374 -9.734 1.00 0.00 C
 ATOM23 C SER A 3130.855 23.274 -8.795 1.00 0.00 C
 ATOM24 O SER A 3130.082 23.528 -7.871 1.00 0.00 O
 ATOM25 CB SER A 3132.408 25.220 -9.040 1.00 0.00 C
 ATOM26 OG SER A 3132.727 26.369 -9.806 1.00 0.00 O
 ATOM27 H SER A 3130.237 26.171 -9.939 1.00 0.00 H
 ATOM28 HA SER A 3131.767 23.918 -10.613 1.00 0.00 H
 ATOM29 1HB SER A 3132.043 25.537 -8.075 1.00 0.00 H
 ATOM30 2HB SER A 3133.302 24.629 -8.910 1.00 0.00 H
 ATOM31 HG SER A 3132.091 27.063 -9.621 1.00 0.00 H
 ATOM32 N GLY A 4131.315 22.051 -9.038 1.00 0.00 N
 ATOM33 CA GLY A 4130.919 20.931 -8.206 1.00 0.00 C
 ATOM34 C GLY A 4130.532 19.711 -9.020 1.00 0.00 C
 ATOM35 O GLY A 4129.678 19.791 -9.902 1.00 0.00 O
 ATOM36 H GLY A 4131.929 21.908 -9.789 1.00 0.00 H
 ATOM37 1HA GLY A 4131.742 20.670 -7.557 1.00 0.00 H
 ATOM38 2HA GLY A 4130.076 21.227 -7.599 1.00 0.00 H
 ATOM39 N SER A 5131.165 18.580 -8.724 1.00 0.00 N

ATOM40 CA SER A 5130.883 17.339 -9.436 1.00 0.00 C
 ATOM41 C SER A 5129.775 16.553 -8.741 1.00 0.00 C
 ATOM42 O SER A 5129.529 16.730 -7.548 1.00 0.00 O
 ATOM43 CB SER A 5132.147 16.483 -9.532 1.00 0.00 C
 ATOM44 OG SER A 5132.417 15.830 -8.304 1.00 0.00 O
 ATOM45 H SER A 5131.837 18.580 -8.011 1.00 0.00 H
 ATOM46 HA SER A 5130.555 17.595 -10.432 1.00 0.00 H
 ATOM47 1HB SER A 5132.015 15.736 -10.300 1.00 0.00 H
 ATOM48 2HB SER A 5132.987 17.113 -9.784 1.00 0.00 H
 ATOM49 HG SER A 5132.762 14.951 -8.477 1.00 0.00 H
 ATOM50 N SER A 6129.109 15.685 -9.496 1.00 0.00 N
 ATOM51 CA SER A 6128.028 14.872 -8.952 1.00 0.00 C
 ATOM52 C SER A 6128.579 13.712 -8.129 1.00 0.00 C
 ATOM53 O SER A 6129.231 12.814 -8.662 1.00 0.00 O
 ATOM54 CB SER A 6127.146 14.337 -10.081 1.00 0.00 C
 ATOM55 OG SER A 6126.755 15.378 -10.960 1.00 0.00 O
 ATOM56 H SER A 6129.352 15.588 -10.440 1.00 0.00 H
 ATOM57 HA SER A 6127.431 15.502 -8.309 1.00 0.00 H
 ATOM58 1HB SER A 6127.695 13.597 -10.644 1.00 0.00 H
 ATOM59 2HB SER A 6126.260 13.885 -9.661 1.00 0.00 H
 ATOM60 HG SER A 6127.535 15.778 -11.351 1.00 0.00 H
 ATOM61 N GLY A 7128.313 13.737 -6.827 1.00 0.00 N
 ATOM62 CA GLY A 7128.790 12.683 -5.952 1.00 0.00 C
 ATOM63 C GLY A 7127.664 11.816 -5.421 1.00 0.00 C
 ATOM64 O GLY A 7127.124 12.079 -4.346 1.00 0.00 O
 ATOM65 H GLY A 7127.788 14.478 -6.458 1.00 0.00 H
 ATOM66 1HA GLY A 7129.481 12.060 -6.499 1.00 0.00 H
 ATOM67 2HA GLY A 7129.308 13.130 -5.116 1.00 0.00 H
 ATOM68 N LEU A 8127.309 10.783 -6.177 1.00 0.00 N
 ATOM69 CA LEU A 8126.240 9.875 -5.777 1.00 0.00 C
 ATOM70 C LEU A 8126.566 9.201 -4.447 1.00 0.00 C

ATOM71 O LEU A 8125.679 8.948 -3.633 1.00 0.00 O
 ATOM72 CB LEU A 8126.012 8.815 -6.857 1.00 0.00 C
 ATOM73 CG LEU A 8125.799 9.364 -8.267 1.00 0.00 C
 ATOM74 CD1 LEU A 8126.357 8.401 -9.305 1.00 0.00 C
 ATOM75 CD2 LEU A 8124.323 9.626 -8.520 1.00 0.00 C
 ATOM76 H LEU A 8127.778 10.626 -7.023 1.00 0.00 H
 ATOM77 HA LEU A 8125.338 10.456 -5.659 1.00 0.00 H
 ATOM78 1HB LEU A 8126.869 8.158 -6.872 1.00 0.00 H
 ATOM79 2HB LEU A 8125.141 8.237 -6.585 1.00 0.00 H
 ATOM80 HG LEU A 8126.328 10.302 -8.366 1.00 0.00 H
 ATOM81 1HD1 LEU A 8125.688 7.560 -9.412 1.00 0.00 H
 ATOM82 2HD1 LEU A 8127.328 8.051 -8.985 1.00 0.00 H
 ATOM83 3HD1 LEU A 8126.453 8.909 -10.253 1.00 0.00 H
 ATOM84 1HD2 LEU A 8124.119 9.548 -9.578 1.00 0.00 H
 ATOM85 2HD2 LEU A 8124.069 10.618 -8.177 1.00 0.00 H
 ATOM86 3HD2 LEU A 8123.731 8.897 -7.986 1.00 0.00 H
 ATOM87 N ALA A 9127.846 8.913 -4.236 1.00 0.00 N
 ATOM88 CA ALA A 9128.291 8.269 -3.007 1.00 0.00 C
 ATOM89 C ALA A 9129.810 8.310 -2.884 1.00 0.00 C
 ATOM90 O ALA A 9130.425 7.393 -2.339 1.00 0.00 O
 ATOM91 CB ALA A 9127.794 6.833 -2.955 1.00 0.00 C
 ATOM92 H ALA A 9128.507 9.141 -4.924 1.00 0.00 H
 ATOM93 HA ALA A 9127.858 8.805 -2.175 1.00 0.00 H
 ATOM94 1HB ALA A 9128.506 6.225 -2.415 1.00 0.00 H
 ATOM95 2HB ALA A 9127.686 6.452 -3.960 1.00 0.00 H
 ATOM96 3HB ALA A 9126.839 6.800 -2.452 1.00 0.00 H
 ATOM97 N MET A 10130.412 9.381 -3.394 1.00 0.00 N
 ATOM98 CA MET A 10131.861 9.542 -3.341 1.00 0.00 C
 ATOM99 C MET A 10132.281 10.879 -3.949 1.00 0.00 C
 ATOM 100 O MET A 10132.849 10.924 -5.041 1.00 0.00 O
 ATOM 101 CB MET A 10132.550 8.392 -4.080 1.00 0.00 C

ATOM	102	CG	MET A	10131.913	8.058	-5.419	1.00	0.00	C
ATOM	103	SD	MET A	10132.616	6.579	-6.173	1.00	0.00	S
ATOM	104	CE	MET A	10132.892	7.152	-7.847	1.00	0.00	C
ATOM	105	H	MET A	10129.868	10.079	-3.816	1.00	0.00	H
ATOM	106	HA	MET A	10132.159	9.522	-2.304	1.00	0.00	H
ATOM	107	1HB	MET A	10133.582	8.658	-4.253	1.00	0.00	H
ATOM	108	2HB	MET A	10132.515	7.509	-3.459	1.00	0.00	H
ATOM	109	1HG	MET A	10130.855	7.900	-5.270	1.00	0.00	H
ATOM	110	2HG	MET A	10132.060	8.892	-6.089	1.00	0.00	H
ATOM	111	1HE	MET A	10133.578	7.985	-7.834	1.00	0.00	H
ATOM	112	2HE	MET A	10131.954	7.464	-8.281	1.00	0.00	H
ATOM	113	3HE	MET A	10133.312	6.350	-8.437	1.00	0.00	H
ATOM	114	N	PRO A	11132.008	11.991	-3.245	1.00	0.00	N
ATOM	115	CA	PRO A	11132.361	13.332	-3.719	1.00	0.00	C
ATOM	116	C	PRO A	11133.857	13.483	-3.993	1.00	0.00	C
ATOM	117	O	PRO A	11134.251	14.000	-5.038	1.00	0.00	O
ATOM	118	CB	PRO A	11131.929	14.253	-2.573	1.00	0.00	C
ATOM	119	CG	PRO A	11130.928	13.466	-1.798	1.00	0.00	C
ATOM	120	CD	PRO A	11131.334	12.027	-1.935	1.00	0.00	C
ATOM	121	HA	PRO A	11131.811	13.588	-4.613	1.00	0.00	H
ATOM	122	1HB	PRO A	11132.788	14.507	-1.969	1.00	0.00	H
ATOM	123	2HB	PRO A	11131.492	15.154	-2.979	1.00	0.00	H
ATOM	124	1HG	PRO A	11130.950	13.764	-0.761	1.00	0.00	H
ATOM	125	2HG	PRO A	11129.942	13.618	-2.212	1.00	0.00	H
ATOM	126	1HD	PRO A	11132.014	11.749	-1.144	1.00	0.00	H
ATOM	127	2HD	PRO A	11130.465	11.386	-1.931	1.00	0.00	H
ATOM	128	N	PRO A	12134.718	13.035	-3.058	1.00	0.00	N
ATOM	129	CA	PRO A	12136.168	13.131	-3.217	1.00	0.00	C
ATOM	130	C	PRO A	12136.731	12.015	-4.090	1.00	0.00	C
ATOM	131	O	PRO A	12137.651	12.234	-4.879	1.00	0.00	O
ATOM	132	CB	PRO A	12136.677	12.999	-1.785	1.00	0.00	C

ATOM	133	CG	PRO A	12135.676	12.124	-1.112	1.00	0.00	C
ATOM	134	CD	PRO A	12134.349	12.402	-1.774	1.00	0.00	C
ATOM	135	HA	PRO A	12136.461	14.089	-3.621	1.00	0.00	H
ATOM	136	1HB	PRO A	12137.659	12.549	-1.788	1.00	0.00	H
ATOM	137	2HB	PRO A	12136.720	13.974	-1.323	1.00	0.00	H
ATOM	138	1HG	PRO A	12135.949	11.087	-1.246	1.00	0.00	H
ATOM	139	2HG	PRO A	12135.627	12.365	-0.061	1.00	0.00	H
ATOM	140	1HD	PRO A	12133.815	11.479	-1.940	1.00	0.00	H
ATOM	141	2HD	PRO A	12133.761	13.074	-1.167	1.00	0.00	H
ATOM	142	N	GLY A	13136.173	10.818	-3.944	1.00	0.00	N
ATOM	143	CA	GLY A	13136.632	9.684	-4.726	1.00	0.00	C
ATOM	144	C	GLY A	13136.975	8.487	-3.862	1.00	0.00	C
ATOM	145	O	GLY A	13137.982	7.818	-4.091	1.00	0.00	O
ATOM	146	H	GLY A	13135.443	10.703	-3.300	1.00	0.00	H
ATOM	147	1HA	GLY A	13135.855	9.402	-5.421	1.00	0.00	H
ATOM	148	2HA	GLY A	13137.510	9.976	-5.283	1.00	0.00	H
ATOM	149	N	ASN A	14136.136	8.216	-2.867	1.00	0.00	N
ATOM	150	CA	ASN A	14136.356	7.092	-1.966	1.00	0.00	C
ATOM	151	C	ASN A	14135.123	6.196	-1.901	1.00	0.00	C
ATOM	152	O	ASN A	14133.991	6.673	-1.989	1.00	0.00	O
ATOM	153	CB	ASN A	14136.708	7.595	-0.565	1.00	0.00	C
ATOM	154	CG	ASN A	14138.013	8.366	-0.540	1.00	0.00	C
ATOM	155	OD1	ASN A	14138.027	9.590	-0.676	1.00	0.00	O
ATOM	156	ND2	ASN A	14139.119	7.653	-0.365	1.00	0.00	N
ATOM	157	H	ASN A	14135.350	8.787	-2.737	1.00	0.00	H
ATOM	158	HA	ASN A	14137.185	6.515	-2.350	1.00	0.00	H
ATOM	159	1HB	ASN A	14135.920	8.245	-0.214	1.00	0.00	H
ATOM	160	2HB	ASN A	14136.797	6.751	0.102	1.00	0.00	H
ATOM	161	1HD2	ASN A	14139.032	6.682	-0.263	1.00	0.00	H
ATOM	162	2HD2	ASN A	14139.977	8.127	-0.344	1.00	0.00	H
ATOM	163	N	SER A	15135.349	4.896	-1.747	1.00	0.00	N

ATOM	164	CA	SER A	15134.257	3.933	-1.670	1.00	0.00	C
ATOM	165	C	SER A	15133.351	4.234	-0.480	1.00	0.00	C
ATOM	166	O	SER A	15132.125	4.183	-0.592	1.00	0.00	O
ATOM	167	CB	SER A	15134.808	2.511	-1.559	1.00	0.00	C
ATOM	168	OG	SER A	15133.762	1.569	-1.395	1.00	0.00	O
ATOM	169	H	SER A	15136.274	4.576	-1.683	1.00	0.00	H
ATOM	170	HA	SER A	15133.678	4.015	-2.578	1.00	0.00	H
ATOM	171	1HB	SER A	15135.357	2.269	-2.456	1.00	0.00	H
ATOM	172	2HB	SER A	15135.469	2.450	-0.705	1.00	0.00	H
ATOM	173	HG	SER A	15133.843	0.882	-2.061	1.00	0.00	H
ATOM	174	N	HIS A	16133.961	4.548	0.657	1.00	0.00	N
ATOM	175	CA	HIS A	16133.209	4.857	1.868	1.00	0.00	C
ATOM	176	C	HIS A	16134.054	5.675	2.839	1.00	0.00	C
ATOM	177	O	HIS A	16133.627	6.726	3.317	1.00	0.00	O
ATOM	178	CB	HIS A	16132.738	3.568	2.544	1.00	0.00	C
ATOM	179	CG	HIS A	16131.347	3.167	2.163	1.00	0.00	C
ATOM	180	ND1	HIS A	16130.235	3.926	2.465	1.00	0.00	N
ATOM	181	CD2	HIS A	16130.889	2.079	1.500	1.00	0.00	C
ATOM	182	CE1	HIS A	16129.154	3.321	2.004	1.00	0.00	C
ATOM	183	NE2	HIS A	16129.523	2.200	1.414	1.00	0.00	N
ATOM	184	H	HIS A	16134.940	4.572	0.684	1.00	0.00	H
ATOM	185	HA	HIS A	16132.346	5.439	1.582	1.00	0.00	H
ATOM	186	1HB	HIS A	16133.402	2.762	2.269	1.00	0.00	H
ATOM	187	2HB	HIS A	16132.765	3.700	3.616	1.00	0.00	H
ATOM	188	HD1	HIS A	16130.238	4.780	2.945	1.00	0.00	H
ATOM	189	HD2	HIS A	16131.487	1.267	1.110	1.00	0.00	H
ATOM	190	HE1	HIS A	16128.141	3.684	2.094	1.00	0.00	H
ATOM	191	HE2	HIS A	16128.912	1.519	1.063	1.00	0.00	H
ATOM	192	N	GLY A	17135.256	5.187	3.127	1.00	0.00	N
ATOM	193	CA	GLY A	17136.143	5.884	4.039	1.00	0.00	C
ATOM	194	C	GLY A	17137.538	5.294	4.059	1.00	0.00	C

ATOM	195	O	GLY A	17138.056	4.942	5.119	1.00	0.00	O
ATOM	196	H	GLY A	17135.544	4.345	2.716	1.00	0.00	H
ATOM	197	1HA	GLY A	17136.206	6.921	3.740	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.728	5.835	5.036	1.00	0.00	H
ATOM	199	N	LEU A	18138.149	5.184	2.883	1.00	0.00	N
ATOM	200	CA	LEU A	18139.492	4.631	2.770	1.00	0.00	C
ATOM	201	C	LEU A	18140.541	5.657	3.188	1.00	0.00	C
ATOM	202	O	LEU A	18140.936	6.512	2.396	1.00	0.00	O
ATOM	203	CB	LEU A	18139.758	4.170	1.335	1.00	0.00	C
ATOM	204	CG	LEU A	18138.859	3.033	0.845	1.00	0.00	C
ATOM	205	CD1	LEU A	18138.767	3.043	-0.673	1.00	0.00	C
ATOM	206	CD2	LEU A	18139.378	1.691	1.341	1.00	0.00	C
ATOM	207	H	LEU A	18137.684	5.482	2.074	1.00	0.00	H
ATOM	208	HA	LEU A	18139.558	3.778	3.429	1.00	0.00	H
ATOM	209	1HB	LEU A	18139.624	5.016	0.677	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.784	3.841	1.268	1.00	0.00	H
ATOM	211	HG	LEU A	18137.863	3.174	1.239	1.00	0.00	H
ATOM	212	1HD1	LEU A	18139.705	3.382	-1.088	1.00	0.00	H
ATOM	213	2HD1	LEU A	18137.975	3.707	-0.982	1.00	0.00	H
ATOM	214	3HD1	LEU A	18138.559	2.043	-1.028	1.00	0.00	H
ATOM	215	1HD2	LEU A	18139.928	1.837	2.260	1.00	0.00	H
ATOM	216	2HD2	LEU A	18140.029	1.260	0.596	1.00	0.00	H
ATOM	217	3HD2	LEU A	18138.546	1.028	1.521	1.00	0.00	H
ATOM	218	N	GLU A	19140.986	5.564	4.436	1.00	0.00	N
ATOM	219	CA	GLU A	19141.989	6.485	4.959	1.00	0.00	C
ATOM	220	C	GLU A	19143.037	5.739	5.779	1.00	0.00	C
ATOM	221	O	GLU A	19142.979	4.517	5.913	1.00	0.00	O
ATOM	222	CB	GLU A	19141.325	7.562	5.819	1.00	0.00	C
ATOM	223	CG	GLU A	19140.463	7.001	6.937	1.00	0.00	C
ATOM	224	CD	GLU A	19139.402	7.979	7.402	1.00	0.00	C
ATOM	225	OE1	GLU A	19139.434	8.369	8.589	1.00	0.00	O

ATOM	226	OE2	GLU A	19138.541	8.356	6.581	1.00	0.00	O
ATOM	227	H	GLU A	19140.633	4.861	5.019	1.00	0.00	H
ATOM	228	HA	GLU A	19142.476	6.957	4.119	1.00	0.00	H
ATOM	229	1HB	GLU A	19142.094	8.179	6.260	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.701	8.176	5.186	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.974	6.106	6.584	1.00	0.00	H
ATOM	232	2HG	GLU A	19141.098	6.756	7.776	1.00	0.00	H
ATOM	233	N	VAL A	20143.994	6.483	6.324	1.00	0.00	N
ATOM	234	CA	VAL A	20145.055	5.891	7.131	1.00	0.00	C
ATOM	235	C	VAL A	20144.481	5.136	8.326	1.00	0.00	C
ATOM	236	O	VAL A	20143.631	5.653	9.050	1.00	0.00	O
ATOM	237	CB	VAL A	20146.037	6.964	7.639	1.00	0.00	C
ATOM	238	CG1	VAL A	20147.209	6.320	8.365	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.525	7.828	6.485	1.00	0.00	C
ATOM	240	H	VAL A	20143.987	7.452	6.181	1.00	0.00	H
ATOM	241	HA	VAL A	20145.601	5.198	6.508	1.00	0.00	H
ATOM	242	HB	VAL A	20145.515	7.600	8.339	1.00	0.00	H
ATOM	243	1HG1	VAL A	20148.077	6.958	8.284	1.00	0.00	H
ATOM	244	2HG1	VAL A	20147.425	5.361	7.919	1.00	0.00	H
ATOM	245	3HG1	VAL A	20146.957	6.185	9.406	1.00	0.00	H
ATOM	246	1HG2	VAL A	20145.737	8.499	6.179	1.00	0.00	H
ATOM	247	2HG2	VAL A	20146.802	7.196	5.655	1.00	0.00	H
ATOM	248	3HG2	VAL A	20147.384	8.402	6.803	1.00	0.00	H
ATOM	249	N	GLY A	21144.950	3.908	8.525	1.00	0.00	N
ATOM	250	CA	GLY A	21144.472	3.102	9.631	1.00	0.00	C
ATOM	251	C	GLY A	21143.364	2.152	9.221	1.00	0.00	C
ATOM	252	O	GLY A	21143.223	1.069	9.789	1.00	0.00	O
ATOM	253	H	GLY A	21145.627	3.547	7.913	1.00	0.00	H
ATOM	254	1HA	GLY A	21145.296	2.526	10.025	1.00	0.00	H
ATOM	255	2HA	GLY A	21144.102	3.757	10.406	1.00	0.00	H
ATOM	256	N	SER A	22142.573	2.559	8.232	1.00	0.00	N

ATOM	257	CA	SER A	22141.471	1.736	7.747	1.00	0.00	C
ATOM	258	C	SER A	22141.972	0.673	6.775	1.00	0.00	C
ATOM	259	O	SER A	22142.811	0.948	5.916	1.00	0.00	O
ATOM	260	CB	SER A	22140.417	2.611	7.066	1.00	0.00	C
ATOM	261	OG	SER A	22139.648	3.320	8.022	1.00	0.00	O
ATOM	262	H	SER A	22142.735	3.432	7.820	1.00	0.00	H
ATOM	263	HA	SER A	22141.024	1.246	8.598	1.00	0.00	H
ATOM	264	1HB	SER A	22140.907	3.322	6.417	1.00	0.00	H
ATOM	265	2HB	SER A	22139.756	1.986	6.482	1.00	0.00	H
ATOM	266	HG	SER A	22140.233	3.756	8.644	1.00	0.00	H
ATOM	267	N	LEU A	23141.454	-0.542	6.915	1.00	0.00	N
ATOM	268	CA	LEU A	23141.848	-1.647	6.049	1.00	0.00	C
ATOM	269	C	LEU A	23141.271	-1.474	4.649	1.00	0.00	C
ATOM	270	O	LEU A	23140.212	-0.873	4.474	1.00	0.00	O
ATOM	271	CB	LEU A	23141.386	-2.979	6.644	1.00	0.00	C
ATOM	272	CG	LEU A	23142.034	-3.354	7.977	1.00	0.00	C
ATOM	273	CD1	LEU A	23141.095	-4.216	8.805	1.00	0.00	C
ATOM	274	CD2	LEU A	23143.354	-4.074	7.743	1.00	0.00	C
ATOM	275	H	LEU A	23140.789	-0.700	7.620	1.00	0.00	H
ATOM	276	HA	LEU A	23142.926	-1.648	5.984	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.316	-2.931	6.788	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.602	-3.761	5.932	1.00	0.00	H
ATOM	279	HG	LEU A	23142.239	-2.452	8.537	1.00	0.00	H
ATOM	280	1HD1	LEU A	23140.088	-3.834	8.720	1.00	0.00	H
ATOM	281	2HD1	LEU A	23141.402	-4.193	9.840	1.00	0.00	H
ATOM	282	3HD1	LEU A	23141.125	-5.232	8.442	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.989	-3.950	8.607	1.00	0.00	H
ATOM	284	2HD2	LEU A	23143.843	-3.657	6.874	1.00	0.00	H
ATOM	285	3HD2	LEU A	23143.167	-5.125	7.581	1.00	0.00	H
ATOM	286	N	ALA A	24141.975	-2.007	3.654	1.00	0.00	N
ATOM	287	CA	ALA A	24141.532	-1.911	2.269	1.00	0.00	C

ATOM	288	C	ALAA	24142.129	-3.030	1.423	1.00	0.00	C
ATOM	289	O	ALAA	24142.995	-3.774	1.883	1.00	0.00	O
ATOM	290	CB	ALAA	24141.902	-0.554	1.689	1.00	0.00	C
ATOM	291	H	ALAA	24142.811	-2.474	3.858	1.00	0.00	H
ATOM	292	HA	ALAA	24140.455	-1.999	2.256	1.00	0.00	H
ATOM	293	1HB	ALAA	24142.966	-0.395	1.797	1.00	0.00	H
ATOM	294	2HB	ALAA	24141.367	0.221	2.216	1.00	0.00	H
ATOM	295	3HB	ALAA	24141.638	-0.525	0.642	1.00	0.00	H
ATOM	296	N	GLUA	25141.660	-3.144	0.185	1.00	0.00	N
ATOM	297	CA	GLUA	25142.147	-4.174	-0.726	1.00	0.00	C
ATOM	298	C	GLUA	25142.482	-3.580	-2.090	1.00	0.00	C
ATOM	299	O	GLUA	25141.969	-2.524	-2.461	1.00	0.00	O
ATOM	300	CB	GLUA	25141.105	-5.282	-0.880	1.00	0.00	C
ATOM	301	CG	GLUA	25141.622	-6.505	-1.622	1.00	0.00	C
ATOM	302	CD	GLUA	25140.539	-7.537	-1.869	1.00	0.00	C
ATOM	303	OE1	GLUA	25139.448	-7.152	-2.336	1.00	0.00	O
ATOM	304	OE2	GLUA	25140.785	-8.732	-1.597	1.00	0.00	O
ATOM	305	H	GLUA	25140.969	-2.522	-0.124	1.00	0.00	H
ATOM	306	HA	GLUA	25143.047	-4.594	-0.299	1.00	0.00	H
ATOM	307	1HB	GLUA	25140.778	-5.594	0.100	1.00	0.00	H
ATOM	308	2HB	GLUA	25140.258	-4.890	-1.424	1.00	0.00	H
ATOM	309	1HG	GLUA	25142.022	-6.190	-2.575	1.00	0.00	H
ATOM	310	2HG	GLUA	25142.407	-6.960	-1.035	1.00	0.00	H
ATOM	311	N	VALA	26143.346	-4.266	-2.833	1.00	0.00	N
ATOM	312	CA	VALA	26143.749	-3.806	-4.157	1.00	0.00	C
ATOM	313	C	VALA	26143.397	-4.834	-5.227	1.00	0.00	C
ATOM	314	O	VALA	26143.403	-6.038	-4.971	1.00	0.00	O
ATOM	315	CB	VALA	26145.261	-3.520	-4.216	1.00	0.00	C
ATOM	316	CG1	VALA	26145.630	-2.857	-5.534	1.00	0.00	C
ATOM	317	CG2	VALA	26145.688	-2.657	-3.038	1.00	0.00	C
ATOM	318	H	VALA	26143.721	-5.100	-2.482	1.00	0.00	H

ATOM	319	HA	VAL A	26143.221	-2.886	-4.366	1.00	0.00	H
ATOM	320	HB	VAL A	26145.788	-4.461	-4.153	1.00	0.00	H
ATOM	321	1HG1	VAL A	26144.767	-2.343	-5.931	1.00	0.00	H
ATOM	322	2HG1	VAL A	26145.957	-3.609	-6.236	1.00	0.00	H
ATOM	323	3HG1	VAL A	26146.427	-2.146	-5.370	1.00	0.00	H
ATOM	324	1HG2	VAL A	26145.118	-1.739	-3.039	1.00	0.00	H
ATOM	325	2HG2	VAL A	26146.740	-2.427	-3.122	1.00	0.00	H
ATOM	326	3HG2	VAL A	26145.508	-3.190	-2.117	1.00	0.00	H
ATOM	327	N	LYS A	27143.090	-4.350	-6.425	1.00	0.00	N
ATOM	328	CA	LYS A	27142.735	-5.226	-7.536	1.00	0.00	C
ATOM	329	C	LYS A	27143.971	-5.609	-8.343	1.00	0.00	C
ATOM	330	O	LYS A	27144.276	-4.991	-9.362	1.00	0.00	O
ATOM	331	CB	LYS A	27141.708	-4.544	-8.443	1.00	0.00	C
ATOM	332	CG	LYS A	27140.274	-4.963	-8.160	1.00	0.00	C
ATOM	333	CD	LYS A	27139.289	-4.199	-9.032	1.00	0.00	C
ATOM	334	CE	LYS A	27138.175	-5.101	-9.536	1.00	0.00	C
ATOM	335	NZ	LYS A	27138.653	-6.038	-10.591	1.00	0.00	N
ATOM	336	H	LYS A	27143.103	-3.380	-6.567	1.00	0.00	H
ATOM	337	HA	LYS A	27142.297	-6.123	-7.123	1.00	0.00	H
ATOM	338	1HB	LYS A	27141.781	-3.475	-8.309	1.00	0.00	H
ATOM	339	2HB	LYS A	27141.934	-4.786	-9.470	1.00	0.00	H
ATOM	340	1HG	LYS A	27140.171	-6.019	-8.360	1.00	0.00	H
ATOM	341	2HG	LYS A	27140.050	-4.766	-7.122	1.00	0.00	H
ATOM	342	1HD	LYS A	27138.855	-3.399	-8.451	1.00	0.00	H
ATOM	343	2HD	LYS A	27139.818	-3.785	-9.879	1.00	0.00	H
ATOM	344	1HE	LYS A	27137.790	-5.675	-8.707	1.00	0.00	H
ATOM	345	2HE	LYS A	27137.388	-4.486	-9.945	1.00	0.00	H
ATOM	346	1HZ	LYS A	27139.312	-5.550	-11.231	1.00	0.00	H
ATOM	347	2HZ	LYS A	27137.849	-6.394	-11.145	1.00	0.00	H
ATOM	348	3HZ	LYS A	27139.145	-6.845	-10.156	1.00	0.00	H
ATOM	349	N	GLU A	28144.679	-6.635	-7.880	1.00	0.00	N

ATOM	350	CA	GLU A	28145.883	-7.101	-8.559	1.00	0.00	C
ATOM	351	C	GLU A	28145.850	-8.615	-8.743	1.00	0.00	C
ATOM	352	O	GLU A	28144.881	-9.276	-8.371	1.00	0.00	O
ATOM	353	CB	GLU A	28147.129	-6.694	-7.770	1.00	0.00	C
ATOM	354	CG	GLU A	28148.209	-6.054	-8.627	1.00	0.00	C
ATOM	355	CD	GLU A	28147.852	-4.643	-9.054	1.00	0.00	C
ATOM	356	OE1	GLU A	28147.828	-4.382	-10.276	1.00	0.00	O
ATOM	357	OE2	GLU A	28147.598	-3.801	-8.168	1.00	0.00	O
ATOM	358	H	GLU A	28144.386	-7.089	-7.063	1.00	0.00	H
ATOM	359	HA	GLU A	28145.915	-6.634	-9.532	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.842	-5.989	-7.005	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.548	-7.573	-7.299	1.00	0.00	H
ATOM	362	1HG	GLU A	28149.127	-6.021	-8.060	1.00	0.00	H
ATOM	363	2HG	GLU A	28148.355	-6.657	-9.511	1.00	0.00	H
ATOM	364	N	ASN A	29146.918	-9.159	-9.319	1.00	0.00	N
ATOM	365	CA	ASN A	29147.013	-10.595	-9.551	1.00	0.00	C
ATOM	366	C	ASN A	29147.022	-11.360	-8.230	1.00	0.00	C
ATOM	367	O	ASN A	29146.158	-12.203	-7.987	1.00	0.00	O
ATOM	368	CB	ASN A	29148.275	-10.920	-10.354	1.00	0.00	C
ATOM	369	CG	ASN A	29147.996	-11.056	-11.838	1.00	0.00	C
ATOM	370	OD1	ASN A	29147.912	-12.164	-12.367	1.00	0.00	O
ATOM	371	ND2	ASN A	29147.853	-9.925	-12.519	1.00	0.00	N
ATOM	372	H	ASN A	29147.660	-8.580	-9.594	1.00	0.00	H
ATOM	373	HA	ASN A	29146.146	-10.896	-10.121	1.00	0.00	H
ATOM	374	1HB	ASN A	29148.997	-10.130	-10.214	1.00	0.00	H
ATOM	375	2HB	ASN A	29148.691	-11.852	-9.998	1.00	0.00	H
ATOM	376	1HD2	ASN A	29147.934	-9.078	-12.031	1.00	0.00	H
ATOM	377	2HD2	ASN A	29147.672	-9.983	-13.480	1.00	0.00	H
ATOM	378	N	PRO A	30148.002	-11.075	-7.356	1.00	0.00	N
ATOM	379	CA	PRO A	30148.120	-11.741	-6.056	1.00	0.00	C
ATOM	380	C	PRO A	30147.114	-11.205	-5.038	1.00	0.00	C

ATOM	381	O	PRO A	30147.237	-10.072	-4.573	1.00	0.00	O
ATOM	382	CB	PRO A	30149.546	-11.404	-5.625	1.00	0.00	C
ATOM	383	CG	PRO A	30149.829	-10.088	-6.263	1.00	0.00	C
ATOM	384	CD	PRO A	30149.076	-10.083	-7.567	1.00	0.00	C
ATOM	385	HA	PRO A	30148.011	-12.810	-6.147	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.593	-11.340	-4.546	1.00	0.00	H
ATOM	387	2HB	PRO A	30150.223	-12.167	-5.977	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.481	-9.289	-5.626	1.00	0.00	H
ATOM	389	2HG	PRO A	30150.890	-9.989	-6.444	1.00	0.00	H
ATOM	390	1HD	PRO A	30148.662	-9.105	-7.757	1.00	0.00	H
ATOM	391	2HD	PRO A	30149.722	-10.382	-8.377	1.00	0.00	H
ATOM	392	N	PRO A	31146.100	-12.014	-4.676	1.00	0.00	N
ATOM	393	CA	PRO A	31145.077	-11.606	-3.707	1.00	0.00	C
ATOM	394	C	PRO A	31145.637	-11.476	-2.293	1.00	0.00	C
ATOM	395	O	PRO A	31145.647	-12.440	-1.529	1.00	0.00	O
ATOM	396	CB	PRO A	31144.050	-12.738	-3.773	1.00	0.00	C
ATOM	397	CG	PRO A	31144.818	-13.920	-4.250	1.00	0.00	C
ATOM	398	CD	PRO A	31145.872	-13.382	-5.177	1.00	0.00	C
ATOM	399	HA	PRO A	31144.611	-10.675	-3.994	1.00	0.00	H
ATOM	400	1HB	PRO A	31143.633	-12.906	-2.791	1.00	0.00	H
ATOM	401	2HB	PRO A	31143.263	-12.474	-4.464	1.00	0.00	H
ATOM	402	1HG	PRO A	31145.278	-14.423	-3.411	1.00	0.00	H
ATOM	403	2HG	PRO A	31144.163	-14.596	-4.779	1.00	0.00	H
ATOM	404	1HD	PRO A	31146.773	-13.973	-5.109	1.00	0.00	H
ATOM	405	2HD	PRO A	31145.507	-13.363	-6.193	1.00	0.00	H
ATOM	406	N	PHE A	32146.101	-10.278	-1.955	1.00	0.00	N
ATOM	407	CA	PHE A	32146.662	-10.020	-0.634	1.00	0.00	C
ATOM	408	C	PHE A	32145.773	-9.069	0.160	1.00	0.00	C
ATOM	409	O	PHE A	32144.803	-8.524	-0.368	1.00	0.00	O
ATOM	410	CB	PHE A	32148.070	-9.434	-0.760	1.00	0.00	C
ATOM	411	CG	PHE A	32148.162	-8.301	-1.742	1.00	0.00	C

ATOM	412	CD1 PHE A	32148.899	-8.435	-2.907	1.00	0.00	C
ATOM	413	CD2 PHE A	32147.511	-7.102	-1.499	1.00	0.00	C
ATOM	414	CE1 PHE A	32148.985	-7.394	-3.813	1.00	0.00	C
ATOM	415	CE2 PHE A	32147.593	-6.057	-2.400	1.00	0.00	C
ATOM	416	CZ PHE A	32148.331	-6.203	-3.558	1.00	0.00	C
ATOM	417	H PHE A	32146.065	-9.548	-2.609	1.00	0.00	H
ATOM	418	HA PHE A	32146.721	-10.962	-0.109	1.00	0.00	H
ATOM	419	1HB PHE A	32148.386	-9.064	0.204	1.00	0.00	H
ATOM	420	2HB PHE A	32148.748	-10.211	-1.083	1.00	0.00	H
ATOM	421	HD1 PHE A	32149.409	-9.365	-3.107	1.00	0.00	H
ATOM	422	HD2 PHE A	32146.933	-6.987	-0.593	1.00	0.00	H
ATOM	423	HE1 PHE A	32149.563	-7.510	-4.717	1.00	0.00	H
ATOM	424	HE2 PHE A	32147.082	-5.128	-2.199	1.00	0.00	H
ATOM	425	HZ PHE A	32148.397	-5.389	-4.264	1.00	0.00	H
ATOM	426	N TYR A	33146.109	-8.875	1.431	1.00	0.00	N
ATOM	427	CA TYR A	33145.340	-7.989	2.298	1.00	0.00	C
ATOM	428	C TYR A	33146.263	-7.088	3.112	1.00	0.00	C
ATOM	429	O TYR A	33147.282	-7.538	3.635	1.00	0.00	O
ATOM	430	CB TYR A	33144.448	-8.807	3.236	1.00	0.00	C
ATOM	431	CG TYR A	33143.132	-9.218	2.616	1.00	0.00	C
ATOM	432	CD1 TYR A	33142.336	-8.293	1.954	1.00	0.00	C
ATOM	433	CD2 TYR A	33142.687	-10.531	2.692	1.00	0.00	C
ATOM	434	CE1 TYR A	33141.131	-8.664	1.386	1.00	0.00	C
ATOM	435	CE2 TYR A	33141.485	-10.911	2.126	1.00	0.00	C
ATOM	436	CZ TYR A	33140.711	-9.974	1.474	1.00	0.00	C
ATOM	437	OH TYR A	33139.514	-10.348	0.910	1.00	0.00	O
ATOM	438	H TYR A	33146.892	-9.337	1.795	1.00	0.00	H
ATOM	439	HA TYR A	33144.715	-7.371	1.670	1.00	0.00	H
ATOM	440	1HB TYR A	33144.972	-9.705	3.527	1.00	0.00	H
ATOM	441	2HB TYR A	33144.233	-8.221	4.117	1.00	0.00	H
ATOM	442	HD1 TYR A	33142.667	-7.267	1.885	1.00	0.00	H

ATOM	443	HD2 TYR A	33143.295	-11.264	3.203	1.00	0.00	H
ATOM	444	HE1 TYR A	33140.527	-7.930	0.875	1.00	0.00	H
ATOM	445	HE2 TYR A	33141.156	-11.937	2.196	1.00	0.00	H
ATOM	446	HH TYR A	33139.057	-10.955	1.498	1.00	0.00	H
ATOM	447	N GLY A	34145.899	-5.814	3.214	1.00	0.00	N
ATOM	448	CA GLY A	34146.705	-4.871	3.966	1.00	0.00	C
ATOM	449	C GLY A	34145.905	-3.675	4.442	1.00	0.00	C
ATOM	450	O GLY A	34144.740	-3.513	4.077	1.00	0.00	O
ATOM	451	H GLY A	34145.075	-5.513	2.776	1.00	0.00	H
ATOM	452	1HA GLY A	34147.123	-5.375	4.825	1.00	0.00	H
ATOM	453	2HA GLY A	34147.511	-4.524	3.338	1.00	0.00	H
ATOM	454	N VAL A	35146.531	-2.835	5.261	1.00	0.00	N
ATOM	455	CA VAL A	35145.870	-1.647	5.789	1.00	0.00	C
ATOM	456	C VAL A	35146.552	-0.375	5.292	1.00	0.00	C
ATOM	457	O VAL A	35147.766	-0.345	5.095	1.00	0.00	O
ATOM	458	CB VAL A	35145.861	-1.649	7.330	1.00	0.00	C
ATOM	459	CG1 VAL A	35147.281	-1.641	7.878	1.00	0.00	C
ATOM	460	CG2 VAL A	35145.069	-0.464	7.864	1.00	0.00	C
ATOM	461	H VAL A	35147.459	-3.018	5.515	1.00	0.00	H
ATOM	462	HA VAL A	35144.846	-1.653	5.443	1.00	0.00	H
ATOM	463	HB VAL A	35145.378	-2.556	7.665	1.00	0.00	H
ATOM	464	1HG1 VAL A	35147.861	-0.890	7.361	1.00	0.00	H
ATOM	465	2HG1 VAL A	35147.730	-2.611	7.726	1.00	0.00	H
ATOM	466	3HG1 VAL A	35147.259	-1.415	8.934	1.00	0.00	H
ATOM	467	1HG2 VAL A	35144.397	-0.107	7.098	1.00	0.00	H
ATOM	468	2HG2 VAL A	35145.749	0.326	8.144	1.00	0.00	H
ATOM	469	3HG2 VAL A	35144.500	-0.772	8.729	1.00	0.00	H
ATOM	470	N ILE A	36145.761	0.675	5.093	1.00	0.00	N
ATOM	471	CA ILE A	36146.289	1.949	4.620	1.00	0.00	C
ATOM	472	C ILE A	36147.261	2.548	5.632	1.00	0.00	C
ATOM	473	O ILE A	36147.108	2.361	6.840	1.00	0.00	O

ATOM	474	CB	ILE A	36145.160	2.962	4.345	1.00	0.00	C
ATOM	475	CG1	ILE A	36144.100	2.342	3.431	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.726	4.232	3.724	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.962	3.283	3.101	1.00	0.00	C
ATOM	478	H	ILE A	36144.801	0.591	5.268	1.00	0.00	H
ATOM	479	HA	ILE A	36146.816	1.768	3.695	1.00	0.00	H
ATOM	480	HB	ILE A	36144.704	3.224	5.288	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.564	2.046	2.502	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.683	1.472	3.913	1.00	0.00	H
ATOM	483	1HG2	ILE A	36146.440	4.677	4.402	1.00	0.00	H
ATOM	484	2HG2	ILE A	36144.923	4.930	3.538	1.00	0.00	H
ATOM	485	3HG2	ILE A	36146.216	3.989	2.794	1.00	0.00	H
ATOM	486	1HD1	ILE A	36143.360	4.209	2.712	1.00	0.00	H
ATOM	487	2HD1	ILE A	36142.390	3.485	3.995	1.00	0.00	H
ATOM	488	3HD1	ILE A	36142.321	2.827	2.360	1.00	0.00	H
ATOM	489	N	ARG A	37148.260	3.266	5.132	1.00	0.00	N
ATOM	490	CA	ARG A	37149.257	3.890	5.993	1.00	0.00	C
ATOM	491	C	ARG A	37149.449	5.360	5.629	1.00	0.00	C
ATOM	492	O	ARG A	37149.125	6.251	6.413	1.00	0.00	O
ATOM	493	CB	ARG A	37150.590	3.149	5.885	1.00	0.00	C
ATOM	494	CG	ARG A	37150.463	1.645	6.063	1.00	0.00	C
ATOM	495	CD	ARG A	37150.492	1.254	7.532	1.00	0.00	C
ATOM	496	NE	ARG A	37149.280	1.671	8.234	1.00	0.00	N
ATOM	497	CZ	ARG A	37149.190	1.779	9.558	1.00	0.00	C
ATOM	498	NH1	ARG A	37150.236	1.502	10.326	1.00	0.00	N
ATOM	499	NH2	ARG A	37148.049	2.166	10.114	1.00	0.00	N
ATOM	500	H	ARG A	37148.330	3.378	4.161	1.00	0.00	H
ATOM	501	HA	ARG A	37148.903	3.828	7.011	1.00	0.00	H
ATOM	502	1HB	ARG A	37151.018	3.340	4.912	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.261	3.524	6.644	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.529	1.318	5.633	1.00	0.00	H

ATOM	505	2HG	ARG A	37151.286	1.161	5.556	1.00	0.00	H
ATOM	506	1HD	ARG A	37150.587	0.181	7.604	1.00	0.00	H
ATOM	507	2HD	ARG A	37151.345	1.722	7.999	1.00	0.00	H
ATOM	508	HE	ARG A	37148.493	1.881	7.691	1.00	0.00	H
ATOM	509	1HH1	ARG A	37151.098	1.209	9.913	1.00	0.00	H
ATOM	510	2HH1	ARG A	37150.161	1.585	11.320	1.00	0.00	H
ATOM	511	1HH2	ARG A	37147.259	2.376	9.540	1.00	0.00	H
ATOM	512	2HH2	ARG A	37147.982	2.247	11.108	1.00	0.00	H
ATOM	513	N	TRP A	38149.977	5.605	4.434	1.00	0.00	N
ATOM	514	CA	TRP A	38150.210	6.967	3.968	1.00	0.00	C
ATOM	515	C	TRP A	38149.461	7.233	2.665	1.00	0.00	C
ATOM	516	O	TRP A	38149.556	6.459	1.712	1.00	0.00	O
ATOM	517	CB	TRP A	38151.709	7.216	3.772	1.00	0.00	C
ATOM	518	CG	TRP A	38152.013	8.486	3.032	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.250	9.716	3.576	1.00	0.00	C
ATOM	520	CD2	TRP A	38152.100	8.650	1.612	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.480	10.635	2.580	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.395	10.004	1.365	1.00	0.00	C
ATOM	523	CE3	TRP A	38151.959	7.782	0.525	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.550	10.509	0.076	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.114	8.285	-0.753	1.00	0.00	C
ATOM	526	CH2	TRP A	38152.406	9.637	-0.968	1.00	0.00	C
ATOM	527	H	TRP A	38150.215	4.852	3.852	1.00	0.00	H
ATOM	528	HA	TRP A	38149.839	7.642	4.724	1.00	0.00	H
ATOM	529	1HB	TRP A	38152.188	7.272	4.739	1.00	0.00	H
ATOM	530	2HB	TRP A	38152.134	6.395	3.212	1.00	0.00	H
ATOM	531	HD1	TRP A	38152.253	9.922	4.636	1.00	0.00	H
ATOM	532	HE1	TRP A	38152.676	11.585	2.716	1.00	0.00	H
ATOM	533	HE3	TRP A	38151.734	6.737	0.672	1.00	0.00	H
ATOM	534	HZ2	TRP A	38152.772	11.549	-0.107	1.00	0.00	H
ATOM	535	HZ3	TRP A	38152.009	7.629	-1.604	1.00	0.00	H

ATOM	536	HH2	TRP A	38152.519	9.986	-1.984	1.00	0.00	H
ATOM	537	N	ILE A	39148.726	8.338	2.631	1.00	0.00	N
ATOM	538	CA	ILE A	39147.967	8.719	1.446	1.00	0.00	C
ATOM	539	C	ILE A	39148.411	10.088	0.940	1.00	0.00	C
ATOM	540	O	ILE A	39148.093	11.113	1.541	1.00	0.00	O
ATOM	541	CB	ILE A	39146.454	8.753	1.731	1.00	0.00	C
ATOM	542	CG1	ILE A	39146.012	7.460	2.417	1.00	0.00	C
ATOM	543	CG2	ILE A	39145.675	8.969	0.442	1.00	0.00	C
ATOM	544	CD1	ILE A	39144.676	7.574	3.117	1.00	0.00	C
ATOM	545	H	ILE A	39148.697	8.917	3.421	1.00	0.00	H
ATOM	546	HA	ILE A	39148.154	7.983	0.677	1.00	0.00	H
ATOM	547	HB	ILE A	39146.253	9.587	2.386	1.00	0.00	H
ATOM	548	1HG1	ILE A	39145.933	6.677	1.678	1.00	0.00	H
ATOM	549	2HG1	ILE A	39146.751	7.181	3.154	1.00	0.00	H
ATOM	550	1HG2	ILE A	39144.625	8.799	0.623	1.00	0.00	H
ATOM	551	2HG2	ILE A	39146.028	8.278	-0.310	1.00	0.00	H
ATOM	552	3HG2	ILE A	39145.822	9.982	0.098	1.00	0.00	H
ATOM	553	1HD1	ILE A	39144.179	8.477	2.800	1.00	0.00	H
ATOM	554	2HD1	ILE A	39144.830	7.604	4.186	1.00	0.00	H
ATOM	555	3HD1	ILE A	39144.064	6.719	2.866	1.00	0.00	H
ATOM	556	N	GLY A	40149.152	10.097	-0.164	1.00	0.00	N
ATOM	557	CA	GLY A	40149.630	11.349	-0.720	1.00	0.00	C
ATOM	558	C	GLY A	40150.140	11.202	-2.140	1.00	0.00	C
ATOM	559	O	GLY A	40149.996	10.144	-2.755	1.00	0.00	O
ATOM	560	H	GLY A	40149.379	9.250	-0.599	1.00	0.00	H
ATOM	561	1HA	GLY A	40148.823	12.064	-0.713	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.431	11.721	-0.100	1.00	0.00	H
ATOM	563	N	GLN A	41150.738	12.268	-2.659	1.00	0.00	N
ATOM	564	CA	GLN A	41151.275	12.266	-4.014	1.00	0.00	C
ATOM	565	C	GLN A	41152.744	12.682	-4.013	1.00	0.00	C
ATOM	566	O	GLN A	41153.073	13.816	-3.661	1.00	0.00	O

ATOM	567	CB	GLN A	41150.463	13.213	-4.899	1.00	0.00	C
ATOM	568	CG	GLN A	41148.960	13.014	-4.785	1.00	0.00	C
ATOM	569	CD	GLN A	41148.199	14.324	-4.770	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.192	15.042	-3.770	1.00	0.00	O
ATOM	571	NE2	GLN A	41147.550	14.643	-5.884	1.00	0.00	N
ATOM	572	H	GLN A	41150.820	13.080	-2.117	1.00	0.00	H
ATOM	573	HA	GLN A	41151.192	11.264	-4.405	1.00	0.00	H
ATOM	574	1HB	GLN A	41150.692	14.230	-4.618	1.00	0.00	H
ATOM	575	2HB	GLN A	41150.750	13.060	-5.927	1.00	0.00	H
ATOM	576	1HG	GLN A	41148.623	12.428	-5.626	1.00	0.00	H
ATOM	577	2HG	GLN A	41148.750	12.481	-3.869	1.00	0.00	H
ATOM	578	1HE2	GLN A	41147.599	14.024	-6.642	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.049	15.485	-5.903	1.00	0.00	H
ATOM	580	N	PRO A	42153.655	11.772	-4.405	1.00	0.00	N
ATOM	581	CA	PRO A	42155.092	12.061	-4.440	1.00	0.00	C
ATOM	582	C	PRO A	42155.420	13.259	-5.326	1.00	0.00	C
ATOM	583	O	PRO A	42154.629	13.637	-6.191	1.00	0.00	O
ATOM	584	CB	PRO A	42155.706	10.783	-5.022	1.00	0.00	C
ATOM	585	CG	PRO A	42154.698	9.719	-4.754	1.00	0.00	C
ATOM	586	CD	PRO A	42153.361	10.395	-4.841	1.00	0.00	C
ATOM	587	HA	PRO A	42155.484	12.233	-3.448	1.00	0.00	H
ATOM	588	1HB	PRO A	42155.874	10.911	-6.081	1.00	0.00	H
ATOM	589	2HB	PRO A	42156.642	10.573	-4.526	1.00	0.00	H
ATOM	590	1HG	PRO A	42154.776	8.942	-5.499	1.00	0.00	H
ATOM	591	2HG	PRO A	42154.848	9.311	-3.765	1.00	0.00	H
ATOM	592	1HD	PRO A	42152.996	10.381	-5.857	1.00	0.00	H
ATOM	593	2HD	PRO A	42152.653	9.922	-4.176	1.00	0.00	H
ATOM	594	N	PRO A	43156.595	13.876	-5.121	1.00	0.00	N
ATOM	595	CA	PRO A	43157.024	15.037	-5.905	1.00	0.00	C
ATOM	596	C	PRO A	43157.402	14.663	-7.333	1.00	0.00	C
ATOM	597	O	PRO A	43158.567	14.392	-7.627	1.00	0.00	O

ATOM	598	CB	PRO A	43158.249	15.545	-5.146	1.00	0.00	C
ATOM	599	CG	PRO A	43158.788	14.344	-4.449	1.00	0.00	C
ATOM	600	CD	PRO A	43157.597	13.489	-4.110	1.00	0.00	C
ATOM	601	HA	PRO A	43156.264	15.804	-5.924	1.00	0.00	H
ATOM	602	1HB	PRO A	43158.965	15.950	-5.847	1.00	0.00	H
ATOM	603	2HB	PRO A	43157.951	16.307	-4.443	1.00	0.00	H
ATOM	604	1HG	PRO A	43159.457	13.808	-5.107	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.304	14.642	-3.549	1.00	0.00	H
ATOM	606	1HD	PRO A	43157.847	12.442	-4.196	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.244	13.713	-3.114	1.00	0.00	H
ATOM	608	N	GLY A	44156.412	14.650	-8.219	1.00	0.00	N
ATOM	609	CA	GLY A	44156.666	14.309	-9.605	1.00	0.00	C
ATOM	610	C	GLY A	44155.424	13.817	-10.320	1.00	0.00	C
ATOM	611	O	GLY A	44155.089	14.302	-11.401	1.00	0.00	O
ATOM	612	H	GLY A	44155.503	14.876	-7.929	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.039	15.183	-10.117	1.00	0.00	H
ATOM	614	2HA	GLY A	44157.418	13.535	-9.641	1.00	0.00	H
ATOM	615	N	LEU A	45154.738	12.852	-9.716	1.00	0.00	N
ATOM	616	CA	LEU A	45153.525	12.298	-10.306	1.00	0.00	C
ATOM	617	C	LEU A	45152.337	12.469	-9.368	1.00	0.00	C
ATOM	618	O	LEU A	45152.290	11.867	-8.297	1.00	0.00	O
ATOM	619	CB	LEU A	45153.722	10.815	-10.630	1.00	0.00	C
ATOM	620	CG	LEU A	45154.338	9.984	-9.503	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.029	8.505	-9.697	1.00	0.00	C
ATOM	622	CD2	LEU A	45155.842	10.216	-9.432	1.00	0.00	C
ATOM	623	H	LEU A	45155.053	12.507	-8.852	1.00	0.00	H
ATOM	624	HA	LEU A	45153.326	12.833	-11.222	1.00	0.00	H
ATOM	625	1HB	LEU A	45152.760	10.391	-10.877	1.00	0.00	H
ATOM	626	2HB	LEU A	45154.364	10.739	-11.495	1.00	0.00	H
ATOM	627	HG	LEU A	45153.907	10.292	-8.561	1.00	0.00	H
ATOM	628	1HD1	LEU A	45153.531	8.361	-10.644	1.00	0.00	H

ATOM	629	2HD1	LEU A	45153.386	8.164	-8.898	1.00	0.00	H
ATOM	630	3HD1	LEU A	45154.949	7.939	-9.684	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.072	10.818	-8.566	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.170	10.728	-10.324	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.351	9.266	-9.355	1.00	0.00	H
ATOM	634	N	ASN A	46151.375	13.292	-9.776	1.00	0.00	N
ATOM	635	CA	ASN A	46150.192	13.528	-8.962	1.00	0.00	C
ATOM	636	C	ASN A	46149.268	12.316	-9.000	1.00	0.00	C
ATOM	637	O	ASN A	46148.624	12.044	-10.013	1.00	0.00	O
ATOM	638	CB	ASN A	46149.446	14.769	-9.454	1.00	0.00	C
ATOM	639	CG	ASN A	46148.709	15.484	-8.339	1.00	0.00	C
ATOM	640	OD1	ASN A	46147.479	15.539	-8.328	1.00	0.00	O
ATOM	641	ND2	ASN A	46149.460	16.036	-7.393	1.00	0.00	N
ATOM	642	H	ASN A	46151.462	13.744	-10.641	1.00	0.00	H
ATOM	643	HA	ASN A	46150.513	13.691	-7.944	1.00	0.00	H
ATOM	644	1HB	ASN A	46150.154	15.457	-9.891	1.00	0.00	H
ATOM	645	2HB	ASN A	46148.727	14.474	-10.206	1.00	0.00	H
ATOM	646	1HD2	ASN A	46150.433	15.953	-7.468	1.00	0.00	H
ATOM	647	2HD2	ASN A	46149.009	16.505	-6.660	1.00	0.00	H
ATOM	648	N	GLU A	47149.212	11.591	-7.889	1.00	0.00	N
ATOM	649	CA	GLU A	47148.370	10.404	-7.789	1.00	0.00	C
ATOM	650	C	GLU A	47148.235	9.958	-6.339	1.00	0.00	C
ATOM	651	O	GLU A	47149.230	9.655	-5.679	1.00	0.00	O
ATOM	652	CB	GLU A	47148.948	9.266	-8.634	1.00	0.00	C
ATOM	653	CG	GLU A	47150.467	9.182	-8.595	1.00	0.00	C
ATOM	654	CD	GLU A	47151.033	8.332	-9.715	1.00	0.00	C
ATOM	655	OE1	GLU A	47151.096	8.825	-10.861	1.00	0.00	O
ATOM	656	OE2	GLU A	47151.415	7.173	-9.446	1.00	0.00	O
ATOM	657	H	GLU A	47149.752	11.859	-7.117	1.00	0.00	H
ATOM	658	HA	GLU A	47147.392	10.660	-8.167	1.00	0.00	H
ATOM	659	1HB	GLU A	47148.550	8.329	-8.275	1.00	0.00	H

ATOM	660	2HB	GLU A	47148.645	9.405	-9.662	1.00	0.00	H
ATOM	661	1HG	GLU A	47150.872	10.179	-8.681	1.00	0.00	H
ATOM	662	2HG	GLU A	47150.768	8.755	-7.650	1.00	0.00	H
ATOM	663	N	VAL A	48147.003	9.912	-5.846	1.00	0.00	N
ATOM	664	CA	VAL A	48146.751	9.495	-4.473	1.00	0.00	C
ATOM	665	C	VAL A	48147.166	8.044	-4.268	1.00	0.00	C
ATOM	666	O	VAL A	48146.436	7.121	-4.633	1.00	0.00	O
ATOM	667	CB	VAL A	48145.266	9.655	-4.096	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.057	9.375	-2.616	1.00	0.00	C
ATOM	669	CG2	VAL A	48144.768	11.047	-4.457	1.00	0.00	C
ATOM	670	H	VAL A	48146.248	10.161	-6.418	1.00	0.00	H
ATOM	671	HA	VAL A	48147.340	10.123	-3.819	1.00	0.00	H
ATOM	672	HB	VAL A	48144.693	8.934	-4.661	1.00	0.00	H
ATOM	673	1HG1	VAL A	48145.200	8.321	-2.425	1.00	0.00	H
ATOM	674	2HG1	VAL A	48144.055	9.659	-2.334	1.00	0.00	H
ATOM	675	3HG1	VAL A	48145.769	9.945	-2.037	1.00	0.00	H
ATOM	676	1HG2	VAL A	48145.443	11.500	-5.168	1.00	0.00	H
ATOM	677	2HG2	VAL A	48144.724	11.656	-3.566	1.00	0.00	H
ATOM	678	3HG2	VAL A	48143.783	10.975	-4.893	1.00	0.00	H
ATOM	679	N	LEU A	49148.343	7.846	-3.684	1.00	0.00	N
ATOM	680	CA	LEU A	49148.856	6.506	-3.434	1.00	0.00	C
ATOM	681	C	LEU A	49148.772	6.164	-1.953	1.00	0.00	C
ATOM	682	O	LEU A	49149.439	6.784	-1.124	1.00	0.00	O
ATOM	683	CB	LEU A	49150.304	6.392	-3.915	1.00	0.00	C
ATOM	684	CG	LEU A	49150.503	6.575	-5.421	1.00	0.00	C
ATOM	685	CD1	LEU A	49151.948	6.937	-5.729	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.097	5.313	-6.168	1.00	0.00	C
ATOM	687	H	LEU A	49148.880	8.621	-3.416	1.00	0.00	H
ATOM	688	HA	LEU A	49148.246	5.808	-3.988	1.00	0.00	H
ATOM	689	1HB	LEU A	49150.892	7.140	-3.402	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.677	5.416	-3.642	1.00	0.00	H

ATOM	691	HG	LEU A	49149.875	7.384	-5.765	1.00	0.00	H
ATOM	692	1HD1	LEU A	49151.984	7.547	-6.619	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.519	6.035	-5.886	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.366	7.487	-4.898	1.00	0.00	H
ATOM	695	1HD2	LEU A	49149.362	4.774	-5.589	1.00	0.00	H
ATOM	696	2HD2	LEU A	49150.966	4.689	-6.318	1.00	0.00	H
ATOM	697	3HD2	LEU A	49149.676	5.581	-7.125	1.00	0.00	H
ATOM	698	N	ALA A	50147.948	5.176	-1.625	1.00	0.00	N
ATOM	699	CA	ALA A	50147.780	4.758	-0.242	1.00	0.00	C
ATOM	700	C	ALA A	50148.746	3.631	0.112	1.00	0.00	C
ATOM	701	O	ALA A	50148.657	2.531	-0.433	1.00	0.00	O
ATOM	702	CB	ALA A	50146.342	4.325	0.007	1.00	0.00	C
ATOM	703	H	ALA A	50147.443	4.719	-2.329	1.00	0.00	H
ATOM	704	HA	ALA A	50147.989	5.610	0.387	1.00	0.00	H
ATOM	705	1HB	ALA A	50145.712	4.691	-0.789	1.00	0.00	H
ATOM	706	2HB	ALA A	50146.003	4.728	0.949	1.00	0.00	H
ATOM	707	3HB	ALA A	50146.292	3.246	0.039	1.00	0.00	H
ATOM	708	N	GLY A	51149.668	3.914	1.025	1.00	0.00	N
ATOM	709	CA	GLY A	51150.637	2.915	1.434	1.00	0.00	C
ATOM	710	C	GLY A	51150.011	1.789	2.232	1.00	0.00	C
ATOM	711	O	GLY A	51149.679	1.961	3.406	1.00	0.00	O
ATOM	712	H	GLY A	51149.691	4.808	1.425	1.00	0.00	H
ATOM	713	1HA	GLY A	51151.104	2.499	0.553	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.396	3.391	2.039	1.00	0.00	H
ATOM	715	N	LEU A	52149.848	0.634	1.596	1.00	0.00	N
ATOM	716	CA	LEU A	52149.257	-0.524	2.256	1.00	0.00	C
ATOM	717	C	LEU A	52150.331	-1.381	2.919	1.00	0.00	C
ATOM	718	O	LEU A	52151.450	-1.488	2.418	1.00	0.00	O
ATOM	719	CB	LEU A	52148.468	-1.365	1.248	1.00	0.00	C
ATOM	720	CG	LEU A	52147.201	-0.702	0.703	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.592	-1.549	-0.403	1.00	0.00	C

ATOM	722	CD2	LEU A	52146.196	-0.478	1.823	1.00	0.00	C
ATOM	723	H	LEU A	52150.133	0.558	0.662	1.00	0.00	H
ATOM	724	HA	LEU A	52148.581	-0.163	3.016	1.00	0.00	H
ATOM	725	1HB	LEU A	52149.119	-1.592	0.416	1.00	0.00	H
ATOM	726	2HB	LEU A	52148.187	-2.291	1.726	1.00	0.00	H
ATOM	727	HG	LEU A	52147.458	0.260	0.284	1.00	0.00	H
ATOM	728	1HD1	LEU A	52146.403	-2.546	-0.032	1.00	0.00	H
ATOM	729	2HD1	LEU A	52147.276	-1.599	-1.237	1.00	0.00	H
ATOM	730	3HD1	LEU A	52145.663	-1.103	-0.726	1.00	0.00	H
ATOM	731	1HD2	LEU A	52146.362	-1.202	2.607	1.00	0.00	H
ATOM	732	2HD2	LEU A	52145.194	-0.592	1.434	1.00	0.00	H
ATOM	733	3HD2	LEU A	52146.316	0.519	2.220	1.00	0.00	H
ATOM	734	N	GLU A	53149.982	-1.988	4.049	1.00	0.00	N
ATOM	735	CA	GLU A	53150.916	-2.836	4.781	1.00	0.00	C
ATOM	736	C	GLU A	53150.448	-4.287	4.782	1.00	0.00	C
ATOM	737	O	GLU A	53149.515	-4.649	5.499	1.00	0.00	O
ATOM	738	CB	GLU A	53151.069	-2.336	6.219	1.00	0.00	C
ATOM	739	CG	GLU A	53152.057	-3.146	7.042	1.00	0.00	C
ATOM	740	CD	GLU A	53151.571	-3.395	8.457	1.00	0.00	C
ATOM	741	OE1	GLU A	53151.282	-4.563	8.789	1.00	0.00	O
ATOM	742	OE2	GLU A	53151.482	-2.420	9.234	1.00	0.00	O
ATOM	743	H	GLU A	53149.075	-1.864	4.398	1.00	0.00	H
ATOM	744	HA	GLU A	53151.874	-2.779	4.286	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.407	-1.311	6.198	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.107	-2.379	6.707	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.212	-4.099	6.560	1.00	0.00	H
ATOM	748	2HG	GLU A	53152.994	-2.610	7.088	1.00	0.00	H
ATOM	749	N	LEU A	54151.103	-5.114	3.974	1.00	0.00	N
ATOM	750	CA	LEU A	54150.754	-6.527	3.881	1.00	0.00	C
ATOM	751	C	LEU A	54151.046	-7.247	5.194	1.00	0.00	C
ATOM	752	O	LEU A	54152.057	-6.982	5.846	1.00	0.00	O

ATOM	753	CB	LEU A	54151.524	-7.191	2.739	1.00	0.00	C
ATOM	754	CG	LEU A	54151.324	-6.552	1.364	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.297	-7.140	0.354	1.00	0.00	C
ATOM	756	CD2	LEU A	54149.889	-6.740	0.895	1.00	0.00	C
ATOM	757	H	LEU A	54151.838	-4.767	3.426	1.00	0.00	H
ATOM	758	HA	LEU A	54149.696	-6.594	3.676	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.578	-7.160	2.978	1.00	0.00	H
ATOM	760	2HB	LEU A	54151.219	-8.225	2.679	1.00	0.00	H
ATOM	761	HG	LEU A	54151.517	-5.492	1.435	1.00	0.00	H
ATOM	762	1HD1	LEU A	54152.308	-8.216	0.449	1.00	0.00	H
ATOM	763	2HD1	LEU A	54153.288	-6.753	0.542	1.00	0.00	H
ATOM	764	3HD1	LEU A	54151.988	-6.870	-0.644	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.541	-7.721	1.183	1.00	0.00	H
ATOM	766	2HD2	LEU A	54149.846	-6.644	-0.180	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.260	-5.988	1.349	1.00	0.00	H
ATOM	768	N	GLU A	55150.156	-8.157	5.576	1.00	0.00	N
ATOM	769	CA	GLU A	55150.320	-8.914	6.811	1.00	0.00	C
ATOM	770	C	GLU A	55151.395	-9.986	6.655	1.00	0.00	C
ATOM	771	O	GLU A	55152.090	-10.325	7.612	1.00	0.00	O
ATOM	772	CB	GLU A	55148.994	-9.562	7.217	1.00	0.00	C
ATOM	773	CG	GLU A	55147.871	-8.562	7.436	1.00	0.00	C
ATOM	774	CD	GLU A	55147.824	-8.042	8.859	1.00	0.00	C
ATOM	775	OE1	GLU A	55146.921	-8.458	9.615	1.00	0.00	O
ATOM	776	OE2	GLU A	55148.691	-7.217	9.219	1.00	0.00	O
ATOM	777	H	GLU A	55149.372	-8.323	5.014	1.00	0.00	H
ATOM	778	HA	GLU A	55150.625	-8.225	7.584	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.689	-10.248	6.441	1.00	0.00	H
ATOM	780	2HB	GLU A	55149.142	-10.112	8.134	1.00	0.00	H
ATOM	781	1HG	GLU A	55148.015	-7.726	6.769	1.00	0.00	H
ATOM	782	2HG	GLU A	55146.930	-9.042	7.213	1.00	0.00	H
ATOM	783	N	ASP A	56151.525	-10.513	5.442	1.00	0.00	N

ATOM	784	CA	ASP A	56152.516	-11.547	5.161	1.00	0.00	C
ATOM	785	C	ASP A	56153.811	-10.931	4.642	1.00	0.00	C
ATOM	786	O	ASP A	56153.807	-10.183	3.665	1.00	0.00	O
ATOM	787	CB	ASP A	56151.967	-12.544	4.140	1.00	0.00	C
ATOM	788	CG	ASP A	56152.412	-13.965	4.423	1.00	0.00	C
ATOM	789	OD1	ASP A	56153.373	-14.428	3.773	1.00	0.00	O
ATOM	790	OD2	ASP A	56151.800	-14.618	5.295	1.00	0.00	O
ATOM	791	H	ASP A	56150.941	-10.202	4.719	1.00	0.00	H
ATOM	792	HA	ASP A	56152.723	-12.067	6.085	1.00	0.00	H
ATOM	793	1HB	ASP A	56150.887	-12.516	4.162	1.00	0.00	H
ATOM	794	2HB	ASP A	56152.310	-12.268	3.155	1.00	0.00	H
ATOM	795	N	GLU A	57154.919	-11.252	5.303	1.00	0.00	N
ATOM	796	CA	GLU A	57156.222	-10.731	4.908	1.00	0.00	C
ATOM	797	C	GLU A	57156.628	-11.260	3.536	1.00	0.00	C
ATOM	798	O	GLU A	57157.106	-12.388	3.411	1.00	0.00	O
ATOM	799	CB	GLU A	57157.282	-11.108	5.946	1.00	0.00	C
ATOM	800	CG	GLU A	57157.377	-10.126	7.102	1.00	0.00	C
ATOM	801	CD	GLU A	57158.593	-10.371	7.975	1.00	0.00	C
ATOM	802	OE1	GLU A	57158.766	-11.514	8.445	1.00	0.00	O
ATOM	803	OE2	GLU A	57159.372	-9.418	8.188	1.00	0.00	O
ATOM	804	H	GLU A	57154.858	-11.854	6.074	1.00	0.00	H
ATOM	805	HA	GLU A	57156.148	-9.655	4.858	1.00	0.00	H
ATOM	806	1HB	GLU A	57157.044	-12.082	6.347	1.00	0.00	H
ATOM	807	2HB	GLU A	57158.245	-11.154	5.460	1.00	0.00	H
ATOM	808	1HG	GLU A	57157.436	-9.124	6.703	1.00	0.00	H
ATOM	809	2HG	GLU A	57156.490	-10.219	7.711	1.00	0.00	H
ATOM	810	N	CYS A	58156.432	-10.439	2.510	1.00	0.00	N
ATOM	811	CA	CYS A	58156.777	-10.825	1.146	1.00	0.00	C
ATOM	812	C	CYS A	58158.157	-10.301	0.765	1.00	0.00	C
ATOM	813	O	CYS A	58158.426	-9.103	0.859	1.00	0.00	O
ATOM	814	CB	CYS A	58155.730	-10.297	0.164	1.00	0.00	C

ATOM	815	SG	CYS A	58155.833	-11.026	-1.487	1.00	0.00	S
ATOM	816	H	CYS A	58156.047	-9.553	2.673	1.00	0.00	H
ATOM	817	HA	CYS A	58156.789	-11.903	1.100	1.00	0.00	H
ATOM	818	1HB	CYS A	58154.745	-10.506	0.553	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.851	-9.229	0.060	1.00	0.00	H
ATOM	820	HG	CYS A	58155.366	-10.449	-2.096	1.00	0.00	H
ATOM	821	N	ALAA	59159.031	-11.207	0.335	1.00	0.00	N
ATOM	822	CA	ALAA	59160.383	-10.836	-0.060	1.00	0.00	C
ATOM	823	C	ALAA	59160.374	-10.001	-1.337	1.00	0.00	C
ATOM	824	O	ALAA	59160.036	-10.496	-2.411	1.00	0.00	O
ATOM	825	CB	ALAA	59161.238	-12.081	-0.249	1.00	0.00	C
ATOM	826	H	ALAA	59158.758	-12.146	0.282	1.00	0.00	H
ATOM	827	HA	ALAA	59160.815	-10.250	0.738	1.00	0.00	H
ATOM	828	1HB	ALAA	59161.020	-12.524	-1.210	1.00	0.00	H
ATOM	829	2HB	ALAA	59161.015	-12.792	0.533	1.00	0.00	H
ATOM	830	3HB	ALAA	59162.282	-11.811	-0.205	1.00	0.00	H
ATOM	831	N	GLY A	60160.746	-8.732	-1.209	1.00	0.00	N
ATOM	832	CA	GLY A	60160.773	-7.848	-2.360	1.00	0.00	C
ATOM	833	C	GLY A	60160.174	-6.487	-2.062	1.00	0.00	C
ATOM	834	O	GLY A	60160.550	-5.488	-2.673	1.00	0.00	O
ATOM	835	H	GLY A	60161.005	-8.392	-0.328	1.00	0.00	H
ATOM	836	1HA	GLY A	60161.797	-7.717	-2.677	1.00	0.00	H
ATOM	837	2HA	GLY A	60160.215	-8.306	-3.165	1.00	0.00	H
ATOM	838	N	CYS A	61159.239	-6.449	-1.118	1.00	0.00	N
ATOM	839	CA	CYS A	61158.586	-5.201	-0.739	1.00	0.00	C
ATOM	840	C	CYS A	61159.505	-4.349	0.132	1.00	0.00	C
ATOM	841	O	CYS A	61160.621	-4.755	0.456	1.00	0.00	O
ATOM	842	CB	CYS A	61157.281	-5.490	0.005	1.00	0.00	C
ATOM	843	SG	CYS A	61156.114	-6.515	-0.920	1.00	0.00	S
ATOM	844	H	CYS A	61158.981	-7.280	-0.667	1.00	0.00	H
ATOM	845	HA	CYS A	61158.361	-4.657	-1.644	1.00	0.00	H

ATOM	846	1HB	CYS A	61157.507	-6.002	0.928	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.791	-4.554	0.230	1.00	0.00	H
ATOM	848	HG	CYS A	61155.351	-6.675	-0.360	1.00	0.00	H
ATOM	849	N	THR A	62159.026	-3.168	0.508	1.00	0.00	N
ATOM	850	CA	THR A	62159.805	-2.260	1.342	1.00	0.00	C
ATOM	851	C	THR A	62159.217	-2.171	2.746	1.00	0.00	C
ATOM	852	O	THR A	62158.231	-2.839	3.059	1.00	0.00	O
ATOM	853	CB	THR A	62159.854	-0.868	0.708	1.00	0.00	C
ATOM	854	OG1	THR A	62158.550	-0.421	0.380	1.00	0.00	O
ATOM	855	CG2	THR A	62160.689	-0.814	-0.553	1.00	0.00	C
ATOM	856	H	THR A	62158.130	-2.901	0.218	1.00	0.00	H
ATOM	857	HA	THR A	62160.810	-2.650	1.410	1.00	0.00	H
ATOM	858	HB	THR A	62160.282	-0.176	1.418	1.00	0.00	H
ATOM	859	HG1	THR A	62158.188	-0.974	-0.315	1.00	0.00	H
ATOM	860	1HG2	THR A	62160.904	-1.819	-0.886	1.00	0.00	H
ATOM	861	2HG2	THR A	62161.615	-0.296	-0.349	1.00	0.00	H
ATOM	862	3HG2	THR A	62160.144	-0.288	-1.323	1.00	0.00	H
ATOM	863	N	ASP A	63159.827	-1.342	3.587	1.00	0.00	N
ATOM	864	CA	ASP A	63159.363	-1.166	4.958	1.00	0.00	C
ATOM	865	C	ASP A	63158.671	0.182	5.130	1.00	0.00	C
ATOM	866	O	ASP A	63158.779	0.818	6.178	1.00	0.00	O
ATOM	867	CB	ASP A	63160.536	-1.278	5.934	1.00	0.00	C
ATOM	868	CG	ASP A	63161.601	-0.229	5.680	1.00	0.00	C
ATOM	869	OD1	ASP A	63162.691	-0.596	5.192	1.00	0.00	O
ATOM	870	OD2	ASP A	63161.345	0.958	5.968	1.00	0.00	O
ATOM	871	H	ASP A	63160.608	-0.838	3.278	1.00	0.00	H
ATOM	872	HA	ASP A	63158.653	-1.952	5.171	1.00	0.00	H
ATOM	873	1HB	ASP A	63160.170	-1.156	6.942	1.00	0.00	H
ATOM	874	2HB	ASP A	63160.987	-2.255	5.834	1.00	0.00	H
ATOM	875	N	GLY A	64157.960	0.612	4.093	1.00	0.00	N
ATOM	876	CA	GLY A	64157.260	1.882	4.148	1.00	0.00	C

ATOM	877	C	GLY A	64158.013	2.990	3.440	1.00	0.00	C
ATOM	878	O	GLY A	64158.125	4.102	3.956	1.00	0.00	O
ATOM	879	H	GLY A	64157.909	0.062	3.282	1.00	0.00	H
ATOM	880	1HA	GLY A	64156.291	1.767	3.687	1.00	0.00	H
ATOM	881	2HA	GLY A	64157.123	2.160	5.183	1.00	0.00	H
ATOM	882	N	THR A	65158.529	2.687	2.253	1.00	0.00	N
ATOM	883	CA	THR A	65159.276	3.667	1.472	1.00	0.00	C
ATOM	884	C	THR A	65158.845	3.638	0.009	1.00	0.00	C
ATOM	885	O	THR A	65158.797	2.578	-0.614	1.00	0.00	O
ATOM	886	CB	THR A	65160.778	3.398	1.578	1.00	0.00	C
ATOM	887	OG1	THR A	65161.034	2.006	1.641	1.00	0.00	O
ATOM	888	CG2	THR A	65161.415	4.039	2.791	1.00	0.00	C
ATOM	889	H	THR A	65158.406	1.784	1.894	1.00	0.00	H
ATOM	890	HA	THR A	65159.064	4.645	1.877	1.00	0.00	H
ATOM	891	HB	THR A	65161.266	3.793	0.700	1.00	0.00	H
ATOM	892	HG1	THR A	65160.910	1.618	0.773	1.00	0.00	H
ATOM	893	1HG2	THR A	65162.234	3.423	3.135	1.00	0.00	H
ATOM	894	2HG2	THR A	65160.681	4.133	3.577	1.00	0.00	H
ATOM	895	3HG2	THR A	65161.788	5.018	2.527	1.00	0.00	H
ATOM	896	N	PHE A	66158.530	4.811	-0.533	1.00	0.00	N
ATOM	897	CA	PHE A	66158.103	4.921	-1.923	1.00	0.00	C
ATOM	898	C	PHE A	66159.010	5.872	-2.697	1.00	0.00	C
ATOM	899	O	PHE A	66159.157	7.039	-2.334	1.00	0.00	O
ATOM	900	CB	PHE A	66156.655	5.406	-1.996	1.00	0.00	C
ATOM	901	CG	PHE A	66155.978	5.083	-3.298	1.00	0.00	C
ATOM	902	CD1	PHE A	66155.722	3.769	-3.654	1.00	0.00	C
ATOM	903	CD2	PHE A	66155.598	6.094	-4.166	1.00	0.00	C
ATOM	904	CE1	PHE A	66155.100	3.468	-4.851	1.00	0.00	C
ATOM	905	CE2	PHE A	66154.976	5.801	-5.364	1.00	0.00	C
ATOM	906	CZ	PHE A	66154.726	4.486	-5.707	1.00	0.00	C
ATOM	907	H	PHE A	66158.588	5.621	0.015	1.00	0.00	H

ATOM	908	HA	PHE A	66158.168	3.939	-2.369	1.00	0.00	H
ATOM	909	1HB	PHE A	66156.086	4.943	-1.204	1.00	0.00	H
ATOM	910	2HB	PHE A	66156.635	6.478	-1.867	1.00	0.00	H
ATOM	911	HD1	PHE A	66156.014	2.973	-2.985	1.00	0.00	H
ATOM	912	HD2	PHE A	66155.792	7.123	-3.898	1.00	0.00	H
ATOM	913	HE1	PHE A	66154.907	2.440	-5.117	1.00	0.00	H
ATOM	914	HE2	PHE A	66154.684	6.598	-6.032	1.00	0.00	H
ATOM	915	HZ	PHE A	66154.240	4.254	-6.643	1.00	0.00	H
ATOM	916	N	ARG A	67159.615	5.366	-3.767	1.00	0.00	N
ATOM	917	CA	ARG A	67160.508	6.172	-4.592	1.00	0.00	C
ATOM	918	C	ARG A	67161.689	6.684	-3.776	1.00	0.00	C
ATOM	919	O	ARG A	67162.217	7.765	-4.039	1.00	0.00	O
ATOM	920	CB	ARG A	67159.746	7.348	-5.204	1.00	0.00	C
ATOM	921	CG	ARG A	67158.677	6.930	-6.200	1.00	0.00	C
ATOM	922	CD	ARG A	67158.317	8.067	-7.143	1.00	0.00	C
ATOM	923	NE	ARG A	67159.015	7.958	-8.422	1.00	0.00	N
ATOM	924	CZ	ARG A	67159.160	8.970	-9.274	1.00	0.00	C
ATOM	925	NH1	ARG A	67158.658	10.165	-8.989	1.00	0.00	N
ATOM	926	NH2	ARG A	67159.808	8.786	-10.417	1.00	0.00	N
ATOM	927	H	ARG A	67159.458	4.429	-4.006	1.00	0.00	H
ATOM	928	HA	ARG A	67160.881	5.543	-5.387	1.00	0.00	H
ATOM	929	1HB	ARG A	67159.271	7.906	-4.411	1.00	0.00	H
ATOM	930	2HB	ARG A	67160.449	7.991	-5.714	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.045	6.097	-6.780	1.00	0.00	H
ATOM	932	2HG	ARG A	67157.792	6.629	-5.657	1.00	0.00	H
ATOM	933	1HD	ARG A	67157.253	8.045	-7.322	1.00	0.00	H
ATOM	934	2HD	ARG A	67158.585	9.003	-6.675	1.00	0.00	H
ATOM	935	HE	ARG A	67159.396	7.087	-8.657	1.00	0.00	H
ATOM	936	1HH1	ARG A	67158.168	10.311	-8.129	1.00	0.00	H
ATOM	937	2HH1	ARG A	67158.771	10.921	-9.634	1.00	0.00	H
ATOM	938	1HH2	ARG A	67160.188	7.888	-10.637	1.00	0.00	H

ATOM	939	2HH2	ARG A	67159.917	9.546	-11.058	1.00	0.00	H
ATOM	940	N	GLY A	68162.100	5.902	-2.783	1.00	0.00	N
ATOM	941	CA	GLY A	68163.216	6.295	-1.942	1.00	0.00	C
ATOM	942	C	GLY A	68162.847	7.392	-0.963	1.00	0.00	C
ATOM	943	O	GLY A	68163.696	8.189	-0.564	1.00	0.00	O
ATOM	944	H	GLY A	68161.641	5.052	-2.619	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.556	5.433	-1.389	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.020	6.645	-2.572	1.00	0.00	H
ATOM	947	N	THR A	69161.577	7.433	-0.576	1.00	0.00	N
ATOM	948	CA	THR A	69161.096	8.441	0.363	1.00	0.00	C
ATOM	949	C	THR A	69160.235	7.806	1.449	1.00	0.00	C
ATOM	950	O	THR A	69159.141	7.310	1.178	1.00	0.00	O
ATOM	951	CB	THR A	69160.297	9.515	-0.375	1.00	0.00	C
ATOM	952	OG1	THR A	69160.987	9.948	-1.533	1.00	0.00	O
ATOM	953	CG2	THR A	69160.010	10.737	0.472	1.00	0.00	C
ATOM	954	H	THR A	69160.947	6.771	-0.928	1.00	0.00	H
ATOM	955	HA	THR A	69161.957	8.900	0.825	1.00	0.00	H
ATOM	956	HB	THR A	69159.349	9.096	-0.682	1.00	0.00	H
ATOM	957	HG1	THR A	69161.176	9.193	-2.095	1.00	0.00	H
ATOM	958	1HG2	THR A	69159.249	11.336	-0.006	1.00	0.00	H
ATOM	959	2HG2	THR A	69160.913	11.319	0.579	1.00	0.00	H
ATOM	960	3HG2	THR A	69159.665	10.425	1.447	1.00	0.00	H
ATOM	961	N	ARG A	70160.735	7.825	2.680	1.00	0.00	N
ATOM	962	CA	ARG A	70160.011	7.251	3.809	1.00	0.00	C
ATOM	963	C	ARG A	70158.731	8.032	4.087	1.00	0.00	C
ATOM	964	O	ARG A	70158.765	9.242	4.308	1.00	0.00	O
ATOM	965	CB	ARG A	70160.897	7.239	5.057	1.00	0.00	C
ATOM	966	CG	ARG A	70160.228	6.616	6.272	1.00	0.00	C
ATOM	967	CD	ARG A	70160.684	7.279	7.561	1.00	0.00	C
ATOM	968	NE	ARG A	70162.045	6.890	7.924	1.00	0.00	N
ATOM	969	CZ	ARG A	70162.802	7.562	8.789	1.00	0.00	C

ATOM	970	NH1	ARG	A	70162.336	8.654	9.381	1.00	0.00	N
ATOM	971	NH2	ARG	A	70164.028	7.139	9.064	1.00	0.00	N
ATOM	972	H	ARG	A	70161.612	8.235	2.834	1.00	0.00	H
ATOM	973	HA	ARG	A	70159.751	6.235	3.553	1.00	0.00	H
ATOM	974	1HB	ARG	A	70161.795	6.681	4.842	1.00	0.00	H
ATOM	975	2HB	ARG	A	70161.166	8.256	5.303	1.00	0.00	H
ATOM	976	1HG	ARG	A	70159.158	6.731	6.180	1.00	0.00	H
ATOM	977	2HG	ARG	A	70160.477	5.566	6.309	1.00	0.00	H
ATOM	978	1HD	ARG	A	70160.650	8.351	7.431	1.00	0.00	H
ATOM	979	2HD	ARG	A	70160.013	6.992	8.356	1.00	0.00	H
ATOM	980	HE	ARG	A	70162.414	6.086	7.502	1.00	0.00	H
ATOM	981	1HH1	ARG	A	70161.412	8.979	9.178	1.00	0.00	H
ATOM	982	2HH1	ARG	A	70162.909	9.154	10.030	1.00	0.00	H
ATOM	983	1HH2	ARG	A	70164.384	6.316	8.621	1.00	0.00	H
ATOM	984	2HH2	ARG	A	70164.597	7.643	9.714	1.00	0.00	H
ATOM	985	N	TYR	A	71157.602	7.330	4.076	1.00	0.00	N
ATOM	986	CA	TYR	A	71156.310	7.957	4.327	1.00	0.00	C
ATOM	987	C	TYR	A	71155.770	7.560	5.696	1.00	0.00	C
ATOM	988	O	TYR	A	71155.270	8.400	6.446	1.00	0.00	O
ATOM	989	CB	TYR	A	71155.309	7.566	3.238	1.00	0.00	C
ATOM	990	CG	TYR	A	71155.424	8.400	1.981	1.00	0.00	C
ATOM	991	CD1	TYR	A	71155.529	9.784	2.050	1.00	0.00	C
ATOM	992	CD2	TYR	A	71155.426	7.802	0.727	1.00	0.00	C
ATOM	993	CE1	TYR	A	71155.635	10.548	0.905	1.00	0.00	C
ATOM	994	CE2	TYR	A	71155.532	8.561	-0.424	1.00	0.00	C
ATOM	995	CZ	TYR	A	71155.635	9.933	-0.330	1.00	0.00	C
ATOM	996	OH	TYR	A	71155.740	10.691	-1.473	1.00	0.00	O
ATOM	997	H	TYR	A	71157.639	6.368	3.893	1.00	0.00	H
ATOM	998	HA	TYR	A	71156.451	9.028	4.306	1.00	0.00	H
ATOM	999	1HB	TYR	A	71155.468	6.533	2.966	1.00	0.00	H
ATOM	1000	2HB	TYR	A	71154.306	7.681	3.623	1.00	0.00	H

ATOM	1001	HD1 TYR A	71155.529	10.262	3.018	1.00	0.00	H
ATOM	1002	HD2 TYR A	71155.344	6.728	0.657	1.00	0.00	H
ATOM	1003	HE1 TYR A	71155.716	11.623	0.978	1.00	0.00	H
ATOM	1004	HE2 TYR A	71155.531	8.078	-1.390	1.00	0.00	H
ATOM	1005	HH TYR A	71156.629	10.616	-1.827	1.00	0.00	H
ATOM	1006	N PHE A	72155.873	6.274	6.017	1.00	0.00	N
ATOM	1007	CA PHE A	72155.395	5.765	7.298	1.00	0.00	C
ATOM	1008	C PHE A	72156.315	4.669	7.825	1.00	0.00	C
ATOM	1009	O PHE A	72157.106	4.095	7.077	1.00	0.00	O
ATOM	1010	CB PHE A	72153.969	5.226	7.156	1.00	0.00	C
ATOM	1011	CG PHE A	72153.833	4.157	6.110	1.00	0.00	C
ATOM	1012	CD1 PHE A	72153.929	2.818	6.453	1.00	0.00	C
ATOM	1013	CD2 PHE A	72153.609	4.491	4.785	1.00	0.00	C
ATOM	1014	CE1 PHE A	72153.804	1.832	5.493	1.00	0.00	C
ATOM	1015	CE2 PHE A	72153.483	3.510	3.820	1.00	0.00	C
ATOM	1016	CZ PHE A	72153.581	2.178	4.174	1.00	0.00	C
ATOM	1017	H PHE A	72156.281	5.653	5.379	1.00	0.00	H
ATOM	1018	HA PHE A	72155.392	6.585	8.001	1.00	0.00	H
ATOM	1019	1HB PHE A	72153.655	4.809	8.101	1.00	0.00	H
ATOM	1020	2HB PHE A	72153.311	6.039	6.890	1.00	0.00	H
ATOM	1021	HD1 PHE A	72154.104	2.546	7.484	1.00	0.00	H
ATOM	1022	HD2 PHE A	72153.533	5.532	4.507	1.00	0.00	H
ATOM	1023	HE1 PHE A	72153.881	0.792	5.773	1.00	0.00	H
ATOM	1024	HE2 PHE A	72153.309	3.784	2.789	1.00	0.00	H
ATOM	1025	HZ PHE A	72153.483	1.410	3.423	1.00	0.00	H
ATOM	1026	N THR A	73156.207	4.384	9.119	1.00	0.00	N
ATOM	1027	CA THR A	73157.029	3.357	9.747	1.00	0.00	C
ATOM	1028	C THR A	73156.250	2.054	9.899	1.00	0.00	C
ATOM	1029	O THR A	73155.248	1.997	10.611	1.00	0.00	O
ATOM	1030	CB THR A	73157.520	3.832	11.114	1.00	0.00	C
ATOM	1031	OG1 THR A	73156.507	4.562	11.785	1.00	0.00	O

ATOM 1032 CG2 THR A 73158.746 4.716 11.036 1.00 0.00 C
 ATOM 1033 H THR A 73155.558 4.877 9.665 1.00 0.00 H
 ATOM 1034 HA THR A 73157.882 3.180 9.110 1.00 0.00 H
 ATOM 1035 HB THR A 73157.771 2.969 11.716 1.00 0.00 H
 ATOM 1036 HG1 THR A 73156.474 4.291 12.706 1.00 0.00 H
 ATOM 1037 IHG2 THR A 73159.529 4.199 10.501 1.00 0.00 H
 ATOM 1038 2HG2 THR A 73159.086 4.949 12.034 1.00 0.00 H
 ATOM 1039 3HG2 THR A 73158.498 5.630 10.517 1.00 0.00 H
 ATOM 1040 N CYS A 74156.717 1.009 9.222 1.00 0.00 N
 ATOM 1041 CA CYS A 74156.065 -0.294 9.281 1.00 0.00 C
 ATOM 1042 C CYS A 74157.095 -1.417 9.320 1.00 0.00 C
 ATOM 1043 O CYS A 74158.301 -1.169 9.289 1.00 0.00 O
 ATOM 1044 CB CYS A 74155.136 -0.478 8.080 1.00 0.00 C
 ATOM 1045 SG CYS A 74153.445 0.096 8.360 1.00 0.00 S
 ATOM 1046 H CYS A 74157.521 1.117 8.670 1.00 0.00 H
 ATOM 1047 HA CYS A 74155.478 -0.329 10.188 1.00 0.00 H
 ATOM 1048 IHB CYS A 74155.534 0.072 7.241 1.00 0.00 H
 ATOM 1049 2HB CYS A 74155.091 -1.527 7.828 1.00 0.00 H
 ATOM 1050 HG CYS A 74153.194 -0.147 9.254 1.00 0.00 H
 ATOM 1051 N ALAA 75156.613 -2.654 9.386 1.00 0.00 N
 ATOM 1052 CA ALAA 75157.492 -3.816 9.428 1.00 0.00 C
 ATOM 1053 C ALAA 75158.208 -4.011 8.096 1.00 0.00 C
 ATOM 1054 O ALAA 75157.739 -3.552 7.055 1.00 0.00 O
 ATOM 1055 CB ALAA 75156.700 -5.062 9.791 1.00 0.00 C
 ATOM 1056 H ALAA 75155.642 -2.787 9.407 1.00 0.00 H
 ATOM 1057 HA ALAA 75158.229 -3.648 10.200 1.00 0.00 H
 ATOM 1058 IHB ALAA 75157.137 -5.921 9.302 1.00 0.00 H
 ATOM 1059 2HB ALAA 75155.676 -4.945 9.467 1.00 0.00 H
 ATOM 1060 3HB ALAA 75156.725 -5.206 10.861 1.00 0.00 H
 ATOM 1061 N LEU A 76159.347 -4.695 8.137 1.00 0.00 N
 ATOM 1062 CA LEU A 76160.129 -4.952 6.933 1.00 0.00 C

ATOM 1063 C LEU A 76159.419 -5.953 6.027 1.00 0.00 C
 ATOM 1064 O LEU A 76158.846 -6.934 6.499 1.00 0.00 O
 ATOM 1065 CB LEU A 76161.518 -5.476 7.303 1.00 0.00 C
 ATOM 1066 CG LEU A 76162.487 -4.420 7.837 1.00 0.00 C
 ATOM 1067 CD1 LEU A 76163.413 -5.024 8.882 1.00 0.00 C
 ATOM 1068 CD2 LEU A 76163.291 -3.812 6.698 1.00 0.00 C
 ATOM 1069 H LEU A 76159.669 -5.036 8.997 1.00 0.00 H
 ATOM 1070 HA LEU A 76160.236 -4.017 6.402 1.00 0.00 H
 ATOM 1071 1HB LEU A 76161.401 -6.242 8.056 1.00 0.00 H
 ATOM 1072 2HB LEU A 76161.956 -5.923 6.425 1.00 0.00 H
 ATOM 1073 HG LEU A 76161.923 -3.629 8.309 1.00 0.00 H
 ATOM 1074 1HD1 LEU A 76163.579 -6.067 8.655 1.00 0.00 H
 ATOM 1075 2HD1 LEU A 76162.961 -4.934 9.858 1.00 0.00 H
 ATOM 1076 3HD1 LEU A 76164.357 -4.499 8.873 1.00 0.00 H
 ATOM 1077 1HD2 LEU A 76162.802 -2.913 6.350 1.00 0.00 H
 ATOM 1078 2HD2 LEU A 76163.359 -4.522 5.886 1.00 0.00 H
 ATOM 1079 3HD2 LEU A 76164.284 -3.568 7.046 1.00 0.00 H
 ATOM 1080 N LYS A 77159.463 -5.699 4.723 1.00 0.00 N
 ATOM 1081 CA LYS A 77158.826 -6.579 3.751 1.00 0.00 C
 ATOM 1082 C LYS A 77157.321 -6.654 3.991 1.00 0.00 C
 ATOM 1083 O LYS A 77156.714 -7.719 3.867 1.00 0.00 O
 ATOM 1084 CB LYS A 77159.436 -7.980 3.821 1.00 0.00 C
 ATOM 1085 CG LYS A 77160.953 -7.988 3.712 1.00 0.00 C
 ATOM 1086 CD LYS A 77161.411 -7.675 2.296 1.00 0.00 C
 ATOM 1087 CE LYS A 77162.908 -7.415 2.240 1.00 0.00 C
 ATOM 1088 NZ LYS A 77163.667 -8.625 1.820 1.00 0.00 N
 ATOM 1089 H LYS A 77159.937 -4.902 4.408 1.00 0.00 H
 ATOM 1090 HA LYS A 77159.002 -6.168 2.768 1.00 0.00 H
 ATOM 1091 1HB LYS A 77159.163 -8.433 4.762 1.00 0.00 H
 ATOM 1092 2HB LYS A 77159.036 -8.576 3.014 1.00 0.00 H
 ATOM 1093 1HG LYS A 77161.357 -7.245 4.383 1.00 0.00 H

ATOM	1094	2HG	LYS A	77161.319	-8.966	3.991	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.177	-8.513	1.658	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.888	-6.797	1.945	1.00	0.00	H
ATOM	1097	1HE	LYS A	77163.096	-6.620	1.534	1.00	0.00	H
ATOM	1098	2HE	LYS A	77163.244	-7.112	3.221	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77163.116	-9.483	2.031	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77164.572	-8.674	2.329	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77163.857	-8.590	0.798	1.00	0.00	H
ATOM	1102	N	LYS A	78156.724	-5.518	4.334	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.290	-5.455	4.591	1.00	0.00	C
ATOM	1104	C	LYS A	78154.730	-4.086	4.219	1.00	0.00	C
ATOM	1105	O	LYS A	78153.888	-3.534	4.928	1.00	0.00	O
ATOM	1106	CB	LYS A	78155.001	-5.755	6.063	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.529	-7.104	6.524	1.00	0.00	C
ATOM	1108	CD	LYS A	78155.130	-7.398	7.961	1.00	0.00	C
ATOM	1109	CE	LYS A	78153.930	-8.331	8.026	1.00	0.00	C
ATOM	1110	NZ	LYS A	78152.998	-7.961	9.126	1.00	0.00	N
ATOM	1111	H	LYS A	78157.261	-4.702	4.417	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.811	-6.205	3.980	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.457	-4.988	6.671	1.00	0.00	H
ATOM	1114	2HB	LYS A	78153.932	-5.739	6.219	1.00	0.00	H
ATOM	1115	1HG	LYS A	78155.126	-7.875	5.884	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.607	-7.101	6.452	1.00	0.00	H
ATOM	1117	1HD	LYS A	78155.962	-7.864	8.468	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.879	-6.470	8.452	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.401	-8.283	7.086	1.00	0.00	H
ATOM	1120	2HE	LYS A	78154.283	-9.339	8.188	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78152.591	-8.817	9.553	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78152.225	-7.371	8.757	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78153.505	-7.426	9.860	1.00	0.00	H
ATOM	1124	N	ALAA	79155.202	-3.543	3.101	1.00	0.00	N

ATOM 1125 CA ALAA 79154.749 -2.238 2.635 1.00 0.00 C
 ATOM 1126 C ALAA 79154.591 -2.223 1.118 1.00 0.00 C
 ATOM 1127 O ALAA 79155.576 -2.254 0.381 1.00 0.00 O
 ATOM 1128 CB ALAA 79155.718 -1.153 3.077 1.00 0.00 C
 ATOM 1129 H ALAA 79155.872 -4.031 2.578 1.00 0.00 H
 ATOM 1130 HA ALAA 79153.789 -2.038 3.088 1.00 0.00 H
 ATOM 1131 1HB ALAA 79155.189 -0.216 3.177 1.00 0.00 H
 ATOM 1132 2HB ALAA 79156.501 -1.048 2.341 1.00 0.00 H
 ATOM 1133 3HB ALAA 79156.152 -1.425 4.029 1.00 0.00 H
 ATOM 1134 N LEUA 80153.345 -2.174 0.658 1.00 0.00 N
 ATOM 1135 CA LEUA 80153.058 -2.154 -0.771 1.00 0.00 C
 ATOM 1136 C LEUA 80152.216 -0.937 -1.140 1.00 0.00 C
 ATOM 1137 O LEUA 80151.022 -0.882 -0.847 1.00 0.00 O
 ATOM 1138 CB LEUA 80152.330 -3.434 -1.184 1.00 0.00 C
 ATOM 1139 CG LEUA 80151.917 -3.501 -2.655 1.00 0.00 C
 ATOM 1140 CD1 LEUA 80153.133 -3.730 -3.540 1.00 0.00 C
 ATOM 1141 CD2 LEUA 80150.885 -4.597 -2.871 1.00 0.00 C
 ATOM 1142 H LEUA 80152.600 -2.151 1.295 1.00 0.00 H
 ATOM 1143 HA LEUA 80153.998 -2.100 -1.298 1.00 0.00 H
 ATOM 1144 1HB LEUA 80152.976 -4.275 -0.975 1.00 0.00 H
 ATOM 1145 2HB LEUA 80151.439 -3.528 -0.580 1.00 0.00 H
 ATOM 1146 HG LEUA 80151.471 -2.559 -2.939 1.00 0.00 H
 ATOM 1147 1HD1 LEUA 80153.887 -4.268 -2.984 1.00 0.00 H
 ATOM 1148 2HD1 LEUA 80153.531 -2.777 -3.858 1.00 0.00 H
 ATOM 1149 3HD1 LEUA 80152.845 -4.307 -4.407 1.00 0.00 H
 ATOM 1150 1HD2 LEUA 80149.893 -4.181 -2.770 1.00 0.00 H
 ATOM 1151 2HD2 LEUA 80151.027 -5.374 -2.134 1.00 0.00 H
 ATOM 1152 3HD2 LEUA 80151.002 -5.012 -3.860 1.00 0.00 H
 ATOM 1153 N PHEA 81152.848 0.039 -1.786 1.00 0.00 N
 ATOM 1154 CA PHEA 81152.157 1.256 -2.195 1.00 0.00 C
 ATOM 1155 C PHEA 81151.307 1.009 -3.437 1.00 0.00 C

ATOM 1156 O PHE A 81151.705 0.267 -4.335 1.00 0.00 O
 ATOM 1157 CB PHE A 81153.167 2.373 -2.469 1.00 0.00 C
 ATOM 1158 CG PHE A 81153.932 2.803 -1.249 1.00 0.00 C
 ATOM 1159 CD1 PHE A 81153.577 3.955 -0.564 1.00 0.00 C
 ATOM 1160 CD2 PHE A 81155.004 2.057 -0.788 1.00 0.00 C
 ATOM 1161 CE1 PHE A 81154.278 4.354 0.558 1.00 0.00 C
 ATOM 1162 CE2 PHE A 81155.708 2.451 0.334 1.00 0.00 C
 ATOM 1163 CZ PHE A 81155.345 3.600 1.008 1.00 0.00 C
 ATOM 1164 H PHE A 81153.800 -0.062 -1.991 1.00 0.00 H
 ATOM 1165 HA PHE A 81151.511 1.559 -1.385 1.00 0.00 H
 ATOM 1166 1HB PHE A 81153.881 2.030 -3.203 1.00 0.00 H
 ATOM 1167 2HB PHE A 81152.644 3.235 -2.856 1.00 0.00 H
 ATOM 1168 HD1 PHE A 81152.742 4.544 -0.915 1.00 0.00 H
 ATOM 1169 HD2 PHE A 81155.289 1.158 -1.315 1.00 0.00 H
 ATOM 1170 HE1 PHE A 81153.992 5.253 1.082 1.00 0.00 H
 ATOM 1171 HE2 PHE A 81156.543 1.860 0.683 1.00 0.00 H
 ATOM 1172 HZ PHE A 81155.895 3.910 1.884 1.00 0.00 H
 ATOM 1173 N VAL A 82150.136 1.635 -3.480 1.00 0.00 N
 ATOM 1174 CA VAL A 82149.229 1.481 -4.612 1.00 0.00 C
 ATOM 1175 C VAL A 82148.290 2.677 -4.731 1.00 0.00 C
 ATOM 1176 O VAL A 82148.185 3.490 -3.813 1.00 0.00 O
 ATOM 1177 CB VAL A 82148.392 0.195 -4.492 1.00 0.00 C
 ATOM 1178 CG1 VAL A 82149.267 -1.034 -4.677 1.00 0.00 C
 ATOM 1179 CG2 VAL A 82147.673 0.150 -3.151 1.00 0.00 C
 ATOM 1180 H VAL A 82149.874 2.213 -2.734 1.00 0.00 H
 ATOM 1181 HA VAL A 82149.826 1.414 -5.510 1.00 0.00 H
 ATOM 1182 HB VAL A 82147.648 0.200 -5.274 1.00 0.00 H
 ATOM 1183 1HG1 VAL A 82149.980 -1.095 -3.866 1.00 0.00 H
 ATOM 1184 2HG1 VAL A 82149.796 -0.961 -5.616 1.00 0.00 H
 ATOM 1185 3HG1 VAL A 82148.650 -1.920 -4.680 1.00 0.00 H
 ATOM 1186 1HG2 VAL A 82146.739 -0.382 -3.261 1.00 0.00 H

ATOM 1187 2HG2 VAL A 82147.476 1.157 -2.815 1.00 0.00 H
 ATOM 1188 3HG2 VAL A 82148.293 -0.357 -2.428 1.00 0.00 H
 ATOM 1189 N LYS A 83147.610 2.775 -5.868 1.00 0.00 N
 ATOM 1190 CA LYS A 83146.677 3.871 -6.108 1.00 0.00 C
 ATOM 1191 C LYS A 83145.454 3.754 -5.206 1.00 0.00 C
 ATOM 1192 O LYS A 83144.760 2.738 -5.212 1.00 0.00 O
 ATOM 1193 CB LYS A 83146.244 3.888 -7.574 1.00 0.00 C
 ATOM 1194 CG LYS A 83147.383 4.164 -8.542 1.00 0.00 C
 ATOM 1195 CD LYS A 83147.037 3.716 -9.953 1.00 0.00 C
 ATOM 1196 CE LYS A 83147.527 4.712 -10.991 1.00 0.00 C
 ATOM 1197 NZ LYS A 83147.970 4.039 -12.243 1.00 0.00 N
 ATOM 1198 H LYS A 83147.736 2.095 -6.562 1.00 0.00 H
 ATOM 1199 HA LYS A 83147.188 4.796 -5.882 1.00 0.00 H
 ATOM 1200 1HB LYS A 83145.815 2.929 -7.822 1.00 0.00 H
 ATOM 1201 2HB LYS A 83145.494 4.653 -7.708 1.00 0.00 H
 ATOM 1202 1HG LYS A 83147.585 5.225 -8.552 1.00 0.00 H
 ATOM 1203 2HG LYS A 83148.262 3.631 -8.210 1.00 0.00 H
 ATOM 1204 1HD LYS A 83147.501 2.760 -10.141 1.00 0.00 H
 ATOM 1205 2HD LYS A 83145.964 3.620 -10.037 1.00 0.00 H
 ATOM 1206 1HE LYS A 83146.723 5.394 -11.225 1.00 0.00 H
 ATOM 1207 2HE LYS A 83148.356 5.266 -10.576 1.00 0.00 H
 ATOM 1208 1HZ LYS A 83147.466 3.137 -12.361 1.00 0.00 H
 ATOM 1209 2HZ LYS A 83148.992 3.849 -12.204 1.00 0.00 H
 ATOM 1210 3HZ LYS A 83147.773 4.646 -13.064 1.00 0.00 H
 ATOM 1211 N LEU A 84145.197 4.803 -4.432 1.00 0.00 N
 ATOM 1212 CA LEU A 84144.059 4.823 -3.523 1.00 0.00 C
 ATOM 1213 C LEU A 84142.750 4.654 -4.288 1.00 0.00 C
 ATOM 1214 O LEU A 84141.796 4.062 -3.782 1.00 0.00 O
 ATOM 1215 CB LEU A 84144.039 6.133 -2.733 1.00 0.00 C
 ATOM 1216 CG LEU A 84142.825 6.326 -1.822 1.00 0.00 C
 ATOM 1217 CD1 LEU A 84142.924 5.419 -0.605 1.00 0.00 C

ATOM 1218 CD2 LEU A 84142.705 7.781 -1.396 1.00 0.00 C
 ATOM 1219 H LEU A 84145.789 5.582 -4.474 1.00 0.00 H
 ATOM 1220 HA LEU A 84144.169 3.999 -2.834 1.00 0.00 H
 ATOM 1221 1HB LEU A 84144.931 6.175 -2.125 1.00 0.00 H
 ATOM 1222 2HB LEU A 84144.066 6.952 -3.437 1.00 0.00 H
 ATOM 1223 HG LEU A 84141.930 6.059 -2.365 1.00 0.00 H
 ATOM 1224 1HD1 LEU A 84141.946 5.308 -0.159 1.00 0.00 H
 ATOM 1225 2HD1 LEU A 84143.600 5.855 0.115 1.00 0.00 H
 ATOM 1226 3HD1 LEU A 84143.294 4.450 -0.906 1.00 0.00 H
 ATOM 1227 1HD2 LEU A 84143.646 8.115 -0.986 1.00 0.00 H
 ATOM 1228 2HD2 LEU A 84141.931 7.874 -0.648 1.00 0.00 H
 ATOM 1229 3HD2 LEU A 84142.451 8.386 -2.254 1.00 0.00 H
 ATOM 1230 N LYS A 85142.712 5.177 -5.508 1.00 0.00 N
 ATOM 1231 CA LYS A 85141.521 5.083 -6.343 1.00 0.00 C
 ATOM 1232 C LYS A 85141.210 3.630 -6.689 1.00 0.00 C
 ATOM 1233 O LYS A 85140.057 3.274 -6.936 1.00 0.00 O
 ATOM 1234 CB LYS A 85141.707 5.896 -7.627 1.00 0.00 C
 ATOM 1235 CG LYS A 85143.008 5.597 -8.352 1.00 0.00 C
 ATOM 1236 CD LYS A 85142.945 6.026 -9.810 1.00 0.00 C
 ATOM 1237 CE LYS A 85142.666 4.847 -10.728 1.00 0.00 C
 ATOM 1238 NZ LYS A 85143.868 4.463 -11.521 1.00 0.00 N
 ATOM 1239 H LYS A 85143.505 5.637 -5.856 1.00 0.00 H
 ATOM 1240 HA LYS A 85140.693 5.494 -5.786 1.00 0.00 H
 ATOM 1241 1HB LYS A 85140.888 5.681 -8.297 1.00 0.00 H
 ATOM 1242 2HB LYS A 85141.691 6.947 -7.379 1.00 0.00 H
 ATOM 1243 1HG LYS A 85143.811 6.131 -7.866 1.00 0.00 H
 ATOM 1244 2HG LYS A 85143.200 4.535 -8.307 1.00 0.00 H
 ATOM 1245 1HD LYS A 85142.156 6.754 -9.927 1.00 0.00 H
 ATOM 1246 2HD LYS A 85143.890 6.470 -10.086 1.00 0.00 H
 ATOM 1247 1HE LYS A 85142.358 4.003 -10.129 1.00 0.00 H
 ATOM 1248 2HE LYS A 85141.869 5.116 -11.406 1.00 0.00 H

ATOM	1249	1HZ	LYS A	85143.929	3.427	-11.599	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85144.729	4.815	-11.058	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85143.810	4.869	-12.477	1.00	0.00	H
ATOM	1252	N	SER A	86142.243	2.794	-6.705	1.00	0.00	N
ATOM	1253	CA	SER A	86142.077	1.380	-7.019	1.00	0.00	C
ATOM	1254	C	SER A	86142.051	0.539	-5.747	1.00	0.00	C
ATOM	1255	O	SER A	86142.486	-0.613	-5.743	1.00	0.00	O
ATOM	1256	CB	SER A	86143.205	0.904	-7.936	1.00	0.00	C
ATOM	1257	OG	SER A	86143.371	1.779	-9.038	1.00	0.00	O
ATOM	1258	H	SER A	86143.139	3.136	-6.500	1.00	0.00	H
ATOM	1259	HA	SER A	86141.134	1.264	-7.533	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.128	0.869	-7.378	1.00	0.00	H
ATOM	1261	2HB	SER A	86142.972	-0.083	-8.308	1.00	0.00	H
ATOM	1262	HG	SER A	86142.512	1.998	-9.406	1.00	0.00	H
ATOM	1263	N	CYS A	87141.537	1.122	-4.669	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.454	0.427	-3.390	1.00	0.00	C
ATOM	1265	C	CYS A	87140.001	0.231	-2.970	1.00	0.00	C
ATOM	1266	O	CYS A	87139.186	1.148	-3.073	1.00	0.00	O
ATOM	1267	CB	CYS A	87142.207	1.208	-2.311	1.00	0.00	C
ATOM	1268	SG	CYS A	87144.005	1.180	-2.501	1.00	0.00	S
ATOM	1269	H	CYS A	87141.206	2.042	-4.735	1.00	0.00	H
ATOM	1270	HA	CYS A	87141.916	-0.542	-3.508	1.00	0.00	H
ATOM	1271	1HB	CYS A	87141.891	2.239	-2.337	1.00	0.00	H
ATOM	1272	2HB	CYS A	87141.972	0.788	-1.344	1.00	0.00	H
ATOM	1273	HG	CYS A	87144.394	1.095	-1.627	1.00	0.00	H
ATOM	1274	N	ARG A	88139.683	-0.971	-2.498	1.00	0.00	N
ATOM	1275	CA	ARG A	88138.328	-1.288	-2.063	1.00	0.00	C
ATOM	1276	C	ARG A	88138.292	-1.575	-0.563	1.00	0.00	C
ATOM	1277	O	ARG A	88139.234	-2.142	-0.010	1.00	0.00	O
ATOM	1278	CB	ARG A	88137.790	-2.492	-2.839	1.00	0.00	C
ATOM	1279	CG	ARG A	88136.954	-2.109	-4.051	1.00	0.00	C

ATOM	1280	CD	ARG A	88135.509	-2.558	-3.902	1.00	0.00	C
ATOM	1281	NE	ARG A	88135.240	-3.791	-4.638	1.00	0.00	N
ATOM	1282	CZ	ARG A	88134.146	-4.531	-4.470	1.00	0.00	C
ATOM	1283	NH1	ARG A	88133.219	-4.168	-3.594	1.00	0.00	N
ATOM	1284	NH2	ARG A	88133.980	-5.638	-5.181	1.00	0.00	N
ATOM	1285	H	ARG A	88140.377	-1.660	-2.441	1.00	0.00	H
ATOM	1286	HA	ARG A	88137.706	-0.430	-2.269	1.00	0.00	H
ATOM	1287	1HB	ARG A	88138.623	-3.088	-3.178	1.00	0.00	H
ATOM	1288	2HB	ARG A	88137.176	-3.087	-2.178	1.00	0.00	H
ATOM	1289	1HG	ARG A	88136.976	-1.035	-4.167	1.00	0.00	H
ATOM	1290	2HG	ARG A	88137.378	-2.575	-4.929	1.00	0.00	H
ATOM	1291	1HD	ARG A	88135.304	-2.724	-2.854	1.00	0.00	H
ATOM	1292	2HD	ARG A	88134.862	-1.778	-4.275	1.00	0.00	H
ATOM	1293	HE	ARG A	88135.910	-4.082	-5.292	1.00	0.00	H
ATOM	1294	1HH1	ARG A	88133.338	-3.334	-3.054	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88132.399	-4.728	-3.472	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88134.676	-5.917	-5.843	1.00	0.00	H
ATOM	1297	2HH2	ARG A	88133.159	-6.194	-5.055	1.00	0.00	H
ATOM	1298	N	PRO A	89137.198	-1.187	0.118	1.00	0.00	N
ATOM	1299	CA	PRO A	89137.048	-1.408	1.560	1.00	0.00	C
ATOM	1300	C	PRO A	89137.285	-2.863	1.950	1.00	0.00	C
ATOM	1301	O	PRO A	89136.808	-3.781	1.282	1.00	0.00	O
ATOM	1302	CB	PRO A	89135.594	-1.013	1.832	1.00	0.00	C
ATOM	1303	CG	PRO A	89135.252	-0.054	0.744	1.00	0.00	C
ATOM	1304	CD	PRO A	89136.026	-0.505	-0.463	1.00	0.00	C
ATOM	1305	HA	PRO A	89137.710	-0.771	2.128	1.00	0.00	H
ATOM	1306	1HB	PRO A	89134.967	-1.892	1.797	1.00	0.00	H
ATOM	1307	2HB	PRO A	89135.520	-0.549	2.803	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.191	-0.090	0.545	1.00	0.00	H
ATOM	1309	2HG	PRO A	89135.548	0.945	1.028	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.436	-1.189	-1.056	1.00	0.00	H

ATOM 1311 2HD PRO A 89136.329 0.346 -1.055 1.00 0.00 H
 ATOM 1312 N ASP A 90138.026 -3.066 3.035 1.00 0.00 N
 ATOM 1313 CA ASP A 90138.326 -4.409 3.514 1.00 0.00 C
 ATOM 1314 C ASP A 90137.405 -4.795 4.667 1.00 0.00 C
 ATOM 1315 O ASP A 90137.387 -4.137 5.706 1.00 0.00 O
 ATOM 1316 CB ASP A 90139.786 -4.499 3.961 1.00 0.00 C
 ATOM 1317 CG ASP A 90140.288 -5.929 4.013 1.00 0.00 C
 ATOM 1318 OD1 ASP A 90139.463 -6.840 4.238 1.00 0.00 O
 ATOM 1319 OD2 ASP A 90141.506 -6.138 3.828 1.00 0.00 O
 ATOM 1320 H ASP A 90138.378 -2.294 3.525 1.00 0.00 H
 ATOM 1321 HA ASP A 90138.167 -5.097 2.696 1.00 0.00 H
 ATOM 1322 1HB ASP A 90140.403 -3.947 3.268 1.00 0.00 H
 ATOM 1323 2HB ASP A 90139.881 -4.067 4.946 1.00 0.00 H
 ATOM 1324 N SER A 91136.640 -5.865 4.475 1.00 0.00 N
 ATOM 1325 CA SER A 91135.716 -6.338 5.498 1.00 0.00 C
 ATOM 1326 C SER A 91136.321 -7.495 6.286 1.00 0.00 C
 ATOM 1327 O SER A 91135.606 -8.375 6.764 1.00 0.00 O
 ATOM 1328 CB SER A 91134.396 -6.776 4.860 1.00 0.00 C
 ATOM 1329 OG SER A 91133.310 -6.584 5.749 1.00 0.00 O
 ATOM 1330 H SER A 91136.699 -6.348 3.624 1.00 0.00 H
 ATOM 1331 HA SER A 91135.523 -5.519 6.175 1.00 0.00 H
 ATOM 1332 1HB SER A 91134.221 -6.196 3.966 1.00 0.00 H
 ATOM 1333 2HB SER A 91134.454 -7.824 4.603 1.00 0.00 H
 ATOM 1334 HG SER A 91133.107 -7.412 6.191 1.00 0.00 H
 ATOM 1335 N ARG A 92137.643 -7.487 6.418 1.00 0.00 N
 ATOM 1336 CA ARG A 92138.345 -8.536 7.149 1.00 0.00 C
 ATOM 1337 C ARG A 92137.999 -8.490 8.633 1.00 0.00 C
 ATOM 1338 O ARG A 92137.991 -9.519 9.310 1.00 0.00 O
 ATOM 1339 CB ARG A 92139.856 -8.395 6.960 1.00 0.00 C
 ATOM 1340 CG ARG A 92140.387 -9.117 5.733 1.00 0.00 C
 ATOM 1341 CD ARG A 92140.922 -10.495 6.085 1.00 0.00 C

ATOM 1342 NE ARG A 92139.849 -11.470 6.267 1.00 0.00 N
 ATOM 1343 CZ ARG A 92140.030 -12.682 6.784 1.00 0.00 C
 ATOM 1344 NH1 ARG A 92141.238 -13.075 7.169 1.00 0.00 N
 ATOM 1345 NH2 ARG A 92138.999 -13.508 6.915 1.00 0.00 N
 ATOM 1346 H ARG A 92138.160 -6.758 6.014 1.00 0.00 H
 ATOM 1347 HA ARG A 92138.029 -9.488 6.747 1.00 0.00 H
 ATOM 1348 1HB ARG A 92140.099 -7.347 6.869 1.00 0.00 H
 ATOM 1349 2HB ARG A 92140.355 -8.796 7.831 1.00 0.00 H
 ATOM 1350 1HG ARG A 92139.586 -9.225 5.016 1.00 0.00 H
 ATOM 1351 2HG ARG A 92141.183 -8.530 5.299 1.00 0.00 H
 ATOM 1352 1HD ARG A 92141.568 -10.830 5.287 1.00 0.00 H
 ATOM 1353 2HD ARG A 92141.491 -10.423 7.001 1.00 0.00 H
 ATOM 1354 HE ARG A 92138.947 -11.206 5.990 1.00 0.00 H
 ATOM 1355 1HH1 ARG A 92142.019 -12.458 7.074 1.00 0.00 H
 ATOM 1356 2HH1 ARG A 92141.367 -13.988 7.557 1.00 0.00 H
 ATOM 1357 1HH2 ARG A 92138.087 -13.217 6.626 1.00 0.00 H
 ATOM 1358 2HH2 ARG A 92139.135 -14.418 7.303 1.00 0.00 H
 ATOM 1359 N PHE A 93137.713 -7.293 9.133 1.00 0.00 N
 ATOM 1360 CA PHE A 93137.366 -7.114 10.538 1.00 0.00 C
 ATOM 1361 C PHE A 93136.006 -6.439 10.683 1.00 0.00 C
 ATOM 1362 O PHE A 93135.761 -5.713 11.646 1.00 0.00 O
 ATOM 1363 CB PHE A 93138.437 -6.284 11.248 1.00 0.00 C
 ATOM 1364 CG PHE A 93139.732 -7.019 11.447 1.00 0.00 C
 ATOM 1365 CD1 PHE A 93140.508 -7.389 10.360 1.00 0.00 C
 ATOM 1366 CD2 PHE A 93140.173 -7.340 12.721 1.00 0.00 C
 ATOM 1367 CE1 PHE A 93141.701 -8.064 10.540 1.00 0.00 C
 ATOM 1368 CE2 PHE A 93141.365 -8.015 12.907 1.00 0.00 C
 ATOM 1369 CZ PHE A 93142.129 -8.378 11.815 1.00 0.00 C
 ATOM 1370 H PHE A 93137.736 -6.511 8.543 1.00 0.00 H
 ATOM 1371 HA PHE A 93137.320 -8.091 10.995 1.00 0.00 H
 ATOM 1372 1HB PHE A 93138.644 -5.400 10.663 1.00 0.00 H

ATOM 1373 2HB PHE A 93138.069 -5.989 12.219 1.00 0.00 H
 ATOM 1374 HD1 PHE A 93140.174 -7.143 9.362 1.00 0.00 H
 ATOM 1375 HD2 PHE A 93139.576 -7.057 13.575 1.00 0.00 H
 ATOM 1376 HE1 PHE A 93142.296 -8.347 9.684 1.00 0.00 H
 ATOM 1377 HE2 PHE A 93141.697 -8.260 13.905 1.00 0.00 H
 ATOM 1378 HZ PHE A 93143.060 -8.906 11.957 1.00 0.00 H
 ATOM 1379 N ALAA 94135.123 -6.684 9.719 1.00 0.00 N
 ATOM 1380 CA ALAA 94133.788 -6.099 9.741 1.00 0.00 C
 ATOM 1381 C ALAA 94132.772 -7.072 10.327 1.00 0.00 C
 ATOM 1382 O ALAA 94132.691 -8.228 9.909 1.00 0.00 O
 ATOM 1383 CB ALAA 94133.373 -5.682 8.337 1.00 0.00 C
 ATOM 1384 H ALAA 94135.376 -7.271 8.976 1.00 0.00 H
 ATOM 1385 HA ALAA 94133.822 -5.214 10.358 1.00 0.00 H
 ATOM 1386 1HB ALAA 94134.251 -5.568 7.721 1.00 0.00 H
 ATOM 1387 2HB ALAA 94132.841 -4.743 8.384 1.00 0.00 H
 ATOM 1388 3HB ALAA 94132.730 -6.439 7.913 1.00 0.00 H
 ATOM 1389 N SERA 95131.999 -6.600 11.299 1.00 0.00 N
 ATOM 1390 CA SERA 95130.987 -7.428 11.944 1.00 0.00 C
 ATOM 1391 C SERA 95129.662 -7.353 11.194 1.00 0.00 C
 ATOM 1392 O SERA 95129.017 -6.305 11.158 1.00 0.00 O
 ATOM 1393 CB SERA 95130.791 -6.992 13.397 1.00 0.00 C
 ATOM 1394 OG SERA 95130.890 -5.584 13.525 1.00 0.00 O
 ATOM 1395 H SERA 95132.110 -5.670 11.589 1.00 0.00 H
 ATOM 1396 HA SERA 95131.338 -8.450 11.928 1.00 0.00 H
 ATOM 1397 1HB SERA 95129.814 -7.304 13.735 1.00 0.00 H
 ATOM 1398 2HB SERA 95131.549 -7.453 14.013 1.00 0.00 H
 ATOM 1399 HG SERA 95130.226 -5.272 14.144 1.00 0.00 H
 ATOM 1400 N LEU A 96129.260 -8.471 10.598 1.00 0.00 N
 ATOM 1401 CA LEU A 96128.010 -8.531 9.849 1.00 0.00 C
 ATOM 1402 C LEU A 96127.168 -9.724 10.295 1.00 0.00 C
 ATOM 1403 O LEU A 96126.898 -10.636 9.512 1.00 0.00 O

ATOM 1404 CB LEU A 96128.294 -8.620 8.348 1.00 0.00 C
 ATOM 1405 CG LEU A 96128.449 -7.275 7.638 1.00 0.00 C
 ATOM 1406 CD1 LEU A 96129.872 -6.756 7.782 1.00 0.00 C
 ATOM 1407 CD2 LEU A 96128.074 -7.403 6.170 1.00 0.00 C
 ATOM 1408 H LEU A 96129.818 -9.273 10.663 1.00 0.00 H
 ATOM 1409 HA LEU A 96127.459 -7.624 10.049 1.00 0.00 H
 ATOM 1410 1HB LEU A 96129.204 -9.186 8.209 1.00 0.00 H
 ATOM 1411 2HB LEU A 96127.483 -9.158 7.881 1.00 0.00 H
 ATOM 1412 HG LEU A 96127.785 -6.556 8.093 1.00 0.00 H
 ATOM 1413 1HD1 LEU A 96130.148 -6.210 6.893 1.00 0.00 H
 ATOM 1414 2HD1 LEU A 96130.546 -7.589 7.917 1.00 0.00 H
 ATOM 1415 3HD1 LEU A 96129.932 -6.102 8.639 1.00 0.00 H
 ATOM 1416 1HD2 LEU A 96128.564 -6.626 5.603 1.00 0.00 H
 ATOM 1417 2HD2 LEU A 96127.003 -7.305 6.063 1.00 0.00 H
 ATOM 1418 3HD2 LEU A 96128.385 -8.368 5.800 1.00 0.00 H
 ATOM 1419 N GLN A 97126.757 -9.711 11.559 1.00 0.00 N
 ATOM 1420 CA GLN A 97125.947 -10.790 12.110 1.00 0.00 C
 ATOM 1421 C GLN A 97124.516 -10.728 11.576 1.00 0.00 C
 ATOM 1422 O GLN A 97124.045 -11.665 10.932 1.00 0.00 O
 ATOM 1423 CB GLN A 97125.941 -10.721 13.640 1.00 0.00 C
 ATOM 1424 CG GLN A 97126.526 -11.955 14.306 1.00 0.00 C
 ATOM 1425 CD GLN A 97127.328 -11.623 15.549 1.00 0.00 C
 ATOM 1426 OE1 GLN A 97128.215 -10.768 15.519 1.00 0.00 O
 ATOM 1427 NE2 GLN A 97127.020 -12.297 16.650 1.00 0.00 N
 ATOM 1428 H GLN A 97127.004 -8.958 12.134 1.00 0.00 H
 ATOM 1429 HA GLN A 97126.390 -11.726 11.804 1.00 0.00 H
 ATOM 1430 1HB GLN A 97126.519 -9.863 13.952 1.00 0.00 H
 ATOM 1431 2HB GLN A 97124.924 -10.602 13.982 1.00 0.00 H
 ATOM 1432 1HG GLN A 97125.719 -12.616 14.585 1.00 0.00 H
 ATOM 1433 2HG GLN A 97127.173 -12.457 13.601 1.00 0.00 H
 ATOM 1434 1HE2 GLN A 97126.303 -12.963 16.600 1.00 0.00 H

ATOM 1435 2HE2 GLN A 97127.523 -12.101 17.468 1.00 0.00 H
 ATOM 1436 N PRO A 98123.805 -9.618 11.839 1.00 0.00 N
 ATOM 1437 CA PRO A 98122.423 -9.441 11.383 1.00 0.00 C
 ATOM 1438 C PRO A 98122.336 -9.185 9.882 1.00 0.00 C
 ATOM 1439 O PRO A 98121.504 -9.772 9.190 1.00 0.00 O
 ATOM 1440 CB PRO A 98121.948 -8.215 12.163 1.00 0.00 C
 ATOM 1441 CG PRO A 98123.189 -7.437 12.434 1.00 0.00 C
 ATOM 1442 CD PRO A 98124.289 -8.450 12.603 1.00 0.00 C
 ATOM 1443 HA PRO A 98121.811 -10.293 11.637 1.00 0.00 H
 ATOM 1444 IHB PRO A 98121.251 -7.650 11.562 1.00 0.00 H
 ATOM 1445 2HB PRO A 98121.472 -8.530 13.079 1.00 0.00 H
 ATOM 1446 IHG PRO A 98123.404 -6.786 11.600 1.00 0.00 H
 ATOM 1447 2HG PRO A 98123.070 -6.861 13.341 1.00 0.00 H
 ATOM 1448 1HD PRO A 98125.213 -8.076 12.188 1.00 0.00 H
 ATOM 1449 2HD PRO A 98124.416 -8.700 13.646 1.00 0.00 H
 ATOM 1450 N SER A 99123.200 -8.306 9.385 1.00 0.00 N
 ATOM 1451 CA SER A 99123.219 -7.974 7.965 1.00 0.00 C
 ATOM 1452 C SER A 99121.874 -7.407 7.521 1.00 0.00 C
 ATOM 1453 O SER A 99121.020 -7.091 8.348 1.00 0.00 O
 ATOM 1454 CB SER A 99123.566 -9.211 7.134 1.00 0.00 C
 ATOM 1455 OG SER A 99124.331 -8.862 5.994 1.00 0.00 O
 ATOM 1456 H SER A 99123.840 -7.871 9.986 1.00 0.00 H
 ATOM 1457 HA SER A 99123.981 -7.223 7.811 1.00 0.00 H
 ATOM 1458 1HB SER A 99124.136 -9.899 7.738 1.00 0.00 H
 ATOM 1459 2HB SER A 99122.654 -9.689 6.808 1.00 0.00 H
 ATOM 1460 HG SER A 99124.982 -9.547 5.823 1.00 0.00 H
 ATOM 1461 N GLY A 100121.693 -7.282 6.210 1.00 0.00 N
 ATOM 1462 CA GLY A 100120.450 -6.753 5.680 1.00 0.00 C
 ATOM 1463 C GLY A 100119.356 -7.803 5.611 1.00 0.00 C
 ATOM 1464 O GLY A 100119.639 -8.982 5.399 1.00 0.00 O
 ATOM 1465 H GLY A 100122.411 -7.550 5.597 1.00 0.00 H

ATOM 1466 1HA GLY A 100120.118 -5.944 6.312 1.00 0.00 H
 ATOM 1467 2HA GLY A 100120.628 -6.370 4.686 1.00 0.00 H
 ATOM 1468 N PRO A 101118.085 -7.404 5.789 1.00 0.00 N
 ATOM 1469 CA PRO A 101116.952 -8.333 5.743 1.00 0.00 C
 ATOM 1470 C PRO A 101116.660 -8.821 4.328 1.00 0.00 C
 ATOM 1471 O PRO A 101116.427 -8.023 3.421 1.00 0.00 O
 ATOM 1472 CB PRO A 101115.786 -7.494 6.269 1.00 0.00 C
 ATOM 1473 CG PRO A 101116.154 -6.088 5.942 1.00 0.00 C
 ATOM 1474 CD PRO A 101117.653 -6.016 6.049 1.00 0.00 C
 ATOM 1475 HA PRO A 101117.110 -9.182 6.391 1.00 0.00 H
 ATOM 1476 1HB PRO A 101114.873 -7.791 5.773 1.00 0.00 H
 ATOM 1477 2HB PRO A 101115.686 -7.638 7.335 1.00 0.00 H
 ATOM 1478 1HG PRO A 101115.838 -5.850 4.937 1.00 0.00 H
 ATOM 1479 2HG PRO A 101115.696 -5.414 6.650 1.00 0.00 H
 ATOM 1480 1HD PRO A 101118.052 -5.343 5.304 1.00 0.00 H
 ATOM 1481 2HD PRO A 101117.947 -5.701 7.039 1.00 0.00 H
 ATOM 1482 N SER A 102116.674 -10.138 4.148 1.00 0.00 N
 ATOM 1483 CA SER A 102116.412 -10.733 2.842 1.00 0.00 C
 ATOM 1484 C SER A 102116.109 -12.222 2.974 1.00 0.00 C
 ATOM 1485 O SER A 102114.991 -12.664 2.712 1.00 0.00 O
 ATOM 1486 CB SER A 102117.608 -10.524 1.913 1.00 0.00 C
 ATOM 1487 OG SER A 102118.116 -9.206 2.023 1.00 0.00 O
 ATOM 1488 H SER A 102116.867 -10.723 4.910 1.00 0.00 H
 ATOM 1489 HA SER A 102115.549 -10.239 2.421 1.00 0.00 H
 ATOM 1490 1HB SER A 102118.391 -11.220 2.174 1.00 0.00 H
 ATOM 1491 2HB SER A 102117.301 -10.695 0.891 1.00 0.00 H
 ATOM 1492 HG SER A 102117.394 -8.577 1.950 1.00 0.00 H
 ATOM 1493 N SER A 103117.113 -12.991 3.383 1.00 0.00 N
 ATOM 1494 CA SER A 103116.954 -14.431 3.549 1.00 0.00 C
 ATOM 1495 C SER A 103116.257 -14.753 4.867 1.00 0.00 C
 ATOM 1496 O SER A 103115.461 -15.689 4.948 1.00 0.00 O

ATOM 1497 CB SER A 103118.316 -15.125 3.496 1.00 0.00 C
 ATOM 1498 OG SER A 103119.347 -14.261 3.943 1.00 0.00 O
 ATOM 1499 H SER A 103117.982 -12.580 3.576 1.00 0.00 H
 ATOM 1500 HA SER A 103116.344 -14.793 2.735 1.00 0.00 H
 ATOM 1501 1HB SER A 103118.297 -15.999 4.129 1.00 0.00 H
 ATOM 1502 2HB SER A 103118.528 -15.422 2.480 1.00 0.00 H
 ATOM 1503 HG SER A 103119.084 -13.850 4.770 1.00 0.00 H
 ATOM 1504 N GLY A 104116.563 -13.971 5.898 1.00 0.00 N
 ATOM 1505 CA GLY A 104115.957 -14.190 7.198 1.00 0.00 C
 ATOM 1506 C GLY A 104116.797 -13.632 8.330 1.00 0.00 C
 ATOM 1507 O GLY A 104116.544 -12.483 8.749 1.00 0.00 O
 ATOM 1508 OXT GLY A 104117.710 -14.346 8.800 1.00 0.00 O
 ATOM 1509 H GLY A 104117.204 -13.241 5.775 1.00 0.00 H
 ATOM 1510 1HA GLY A 104114.988 -13.713 7.216 1.00 0.00 H
 ATOM 1511 2HA GLY A 104115.828 -15.251 7.349 1.00 0.00 H
 TER 1512 GLY A 104
 ENDMDL

Three-Dimensional Structure Coordinate Table 4

ATOM 1 N GLY A 1121.720 20.634 -14.920 1.00 0.00 N
 ATOM 2 CA GLY A 1122.817 20.620 -15.926 1.00 0.00 C
 ATOM 3 C GLY A 1124.008 19.798 -15.473 1.00 0.00 C
 ATOM 4 O GLY A 1124.328 18.773 -16.074 1.00 0.00 O
 ATOM 5 1H GLY A 1121.802 19.811 -14.289 1.00 0.00 H
 ATOM 6 2H GLY A 1120.797 20.600 -15.398 1.00 0.00 H
 ATOM 7 3H GLY A 1121.770 21.502 -14.350 1.00 0.00 H
 ATOM 8 1HA GLY A 1122.439 20.205 -16.849 1.00 0.00 H
 ATOM 9 2HA GLY A 1123.140 21.634 -16.106 1.00 0.00 H
 ATOM 10 N SER A 2124.667 20.251 -14.411 1.00 0.00 N
 ATOM 11 CA SER A 2125.830 19.552 -13.878 1.00 0.00 C
 ATOM 12 C SER A 2125.464 18.765 -12.623 1.00 0.00 C

ATOM13 O SER A 2126.259 18.661 -11.690 1.00 0.00 O
 ATOM14 CB SER A 2126.948 20.547 -13.561 1.00 0.00 C
 ATOM15 OG SER A 2126.520 21.513 -12.617 1.00 0.00 O
 ATOM16 H SER A 2124.363 21.075 -13.976 1.00 0.00 H
 ATOM17 HA SER A 2126.177 18.862 -14.633 1.00 0.00 H
 ATOM18 1HB SER A 2127.796 20.015 -13.156 1.00 0.00 H
 ATOM19 2HB SER A 2127.243 21.054 -14.469 1.00 0.00 H
 ATOM20 HG SER A 2126.598 22.391 -12.998 1.00 0.00 H
 ATOM21 N SER A 3124.255 18.213 -12.610 1.00 0.00 N
 ATOM22 CA SER A 3123.782 17.436 -11.469 1.00 0.00 C
 ATOM23 C SER A 3123.253 16.078 -11.920 1.00 0.00 C
 ATOM24 O SER A 3123.214 15.780 -13.113 1.00 0.00 O
 ATOM25 CB SER A 3122.690 18.201 -10.721 1.00 0.00 C
 ATOM26 OG SER A 3122.954 19.592 -10.713 1.00 0.00 O
 ATOM27 H SER A 3123.666 18.332 -13.384 1.00 0.00 H
 ATOM28 HA SER A 3124.619 17.280 -10.805 1.00 0.00 H
 ATOM29 1HB SER A 3121.739 18.031 -11.206 1.00 0.00 H
 ATOM30 2HB SER A 3122.641 17.848 -9.701 1.00 0.00 H
 ATOM31 HG SER A 3123.781 19.758 -10.252 1.00 0.00 H
 ATOM32 N GLY A 4122.847 15.258 -10.956 1.00 0.00 N
 ATOM33 CA GLY A 4122.325 13.942 -11.272 1.00 0.00 C
 ATOM34 C GLY A 4121.131 13.570 -10.416 1.00 0.00 C
 ATOM35 O GLY A 4120.014 13.442 -10.917 1.00 0.00 O
 ATOM36 H GLY A 4122.901 15.549 -10.021 1.00 0.00 H
 ATOM37 1HA GLY A 4122.029 13.925 -12.310 1.00 0.00 H
 ATOM38 2HA GLY A 4123.105 13.211 -11.120 1.00 0.00 H
 ATOM39 N SER A 5121.366 13.394 -9.120 1.00 0.00 N
 ATOM40 CA SER A 5120.300 13.034 -8.191 1.00 0.00 C
 ATOM41 C SER A 5120.725 13.292 -6.750 1.00 0.00 C
 ATOM42 O SER A 5121.804 13.829 -6.496 1.00 0.00 O
 ATOM43 CB SER A 5119.918 11.564 -8.367 1.00 0.00 C

ATOM44 OG SER A 5118.602 11.319 -7.902 1.00 0.00 O
 ATOM45 H SER A 5122.278 13.510 -8.780 1.00 0.00 H
 ATOM46 HA SER A 5119.443 13.650 -8.417 1.00 0.00 H
 ATOM47 1HB SER A 5119.969 11.303 -9.414 1.00 0.00 H
 ATOM48 2HB SER A 5120.605 10.946 -7.809 1.00 0.00 H
 ATOM49 HG SER A 5117.985 11.880 -8.377 1.00 0.00 H
 ATOM50 N SER A 6119.871 12.904 -5.808 1.00 0.00 N
 ATOM51 CA SER A 6120.158 13.094 -4.391 1.00 0.00 C
 ATOM52 C SER A 6120.904 11.891 -3.822 1.00 0.00 C
 ATOM53 O SER A 6120.766 10.772 -4.314 1.00 0.00 O
 ATOM54 CB SER A 6118.860 13.318 -3.612 1.00 0.00 C
 ATOM55 OG SER A 6118.541 14.697 -3.538 1.00 0.00 O
 ATOM56 H SER A 6119.027 12.481 -6.073 1.00 0.00 H
 ATOM57 HA SER A 6120.782 13.969 -4.293 1.00 0.00 H
 ATOM58 1HB SER A 6118.052 12.801 -4.106 1.00 0.00 H
 ATOM59 2HB SER A 6118.975 12.933 -2.609 1.00 0.00 H
 ATOM60 HG SER A 6118.107 14.880 -2.702 1.00 0.00 H
 ATOM61 N GLY A 7121.697 12.132 -2.782 1.00 0.00 N
 ATOM62 CA GLY A 7122.455 11.059 -2.163 1.00 0.00 C
 ATOM63 C GLY A 7123.939 11.360 -2.100 1.00 0.00 C
 ATOM64 O GLY A 7124.349 12.392 -1.568 1.00 0.00 O
 ATOM65 H GLY A 7121.768 13.044 -2.433 1.00 0.00 H
 ATOM66 1HA GLY A 7122.086 10.908 -1.159 1.00 0.00 H
 ATOM67 2HA GLY A 7122.306 10.153 -2.730 1.00 0.00 H
 ATOM68 N LEU A 8124.747 10.455 -2.645 1.00 0.00 N
 ATOM69 CA LEU A 8126.195 10.628 -2.648 1.00 0.00 C
 ATOM70 C LEU A 8126.735 10.727 -1.225 1.00 0.00 C
 ATOM71 O LEU A 8126.956 11.822 -0.708 1.00 0.00 O
 ATOM72 CB LEU A 8126.578 11.881 -3.439 1.00 0.00 C
 ATOM73 CG LEU A 8126.391 11.771 -4.954 1.00 0.00 C
 ATOM74 CD1 LEU A 8125.132 12.503 -5.392 1.00 0.00 C

ATOM75 CD2 LEU A 8127.609 12.320 -5.684 1.00 0.00 C
 ATOM76 H LEU A 8124.360 9.653 -3.053 1.00 0.00 H
 ATOM77 HA LEU A 8126.631 9.764 -3.127 1.00 0.00 H
 ATOM78 1HB LEU A 8125.979 12.704 -3.080 1.00 0.00 H
 ATOM79 2HB LEU A 8127.617 12.101 -3.241 1.00 0.00 H
 ATOM80 HG LEU A 8126.281 10.731 -5.222 1.00 0.00 H
 ATOM81 1HD1 LEU A 8125.389 13.502 -5.716 1.00 0.00 H
 ATOM82 2HD1 LEU A 8124.442 12.560 -4.564 1.00 0.00 H
 ATOM83 3HD1 LEU A 8124.669 11.968 -6.208 1.00 0.00 H
 ATOM84 1HD2 LEU A 8127.471 12.206 -6.749 1.00 0.00 H
 ATOM85 2HD2 LEU A 8128.489 11.776 -5.375 1.00 0.00 H
 ATOM86 3HD2 LEU A 8127.731 13.366 -5.447 1.00 0.00 H
 ATOM87 N ALAA 9126.946 9.575 -0.597 1.00 0.00 N
 ATOM88 CA ALAA 9127.461 9.530 0.766 1.00 0.00 C
 ATOM89 C ALAA 9128.987 9.538 0.777 1.00 0.00 C
 ATOM90 O ALAA 9129.620 8.618 1.295 1.00 0.00 O
 ATOM91 CB ALAA 9126.930 8.302 1.490 1.00 0.00 C
 ATOM92 H ALAA 9126.752 8.734 -1.062 1.00 0.00 H
 ATOM93 HA ALAA 9127.103 10.408 1.285 1.00 0.00 H
 ATOM94 1HB ALAA 9126.984 7.446 0.834 1.00 0.00 H
 ATOM95 2HB ALAA 9125.902 8.470 1.778 1.00 0.00 H
 ATOM96 3HB ALAA 9127.525 8.119 2.372 1.00 0.00 H
 ATOM97 N META 10129.571 10.584 0.201 1.00 0.00 N
 ATOM98 CA META 10131.023 10.712 0.145 1.00 0.00 C
 ATOM99 C META 10131.429 12.104 -0.337 1.00 0.00 C
 ATOM 100 O META 10132.025 12.252 -1.405 1.00 0.00 O
 ATOM 101 CB META 10131.614 9.645 -0.779 1.00 0.00 C
 ATOM 102 CG META 10130.848 9.478 -2.083 1.00 0.00 C
 ATOM 103 SD META 10131.914 9.566 -3.535 1.00 0.00 S
 ATOM 104 CE META 10131.189 10.954 -4.404 1.00 0.00 C
 ATOM 105 H META 10129.013 11.286 -0.194 1.00 0.00 H

ATOM	106	HA	MET A	10131.407	10.564	1.143	1.00	0.00	H
ATOM	107	1HB	MET A	10132.633	9.913	-1.014	1.00	0.00	H
ATOM	108	2HB	MET A	10131.611	8.697	-0.261	1.00	0.00	H
ATOM	109	1HG	MET A	10130.356	8.517	-2.075	1.00	0.00	H
ATOM	110	2HG	MET A	10130.106	10.259	-2.151	1.00	0.00	H
ATOM	111	1HE	MET A	10130.247	10.653	-4.838	1.00	0.00	H
ATOM	112	2HE	MET A	10131.859	11.279	-5.186	1.00	0.00	H
ATOM	113	3HE	MET A	10131.023	11.765	-3.711	1.00	0.00	H
ATOM	114	N	PRO A	11131.111	13.149	0.447	1.00	0.00	N
ATOM	115	CA	PRO A	11131.448	14.531	0.093	1.00	0.00	C
ATOM	116	C	PRO A	11132.950	14.732	-0.102	1.00	0.00	C
ATOM	117	O	PRO A	11133.376	15.329	-1.090	1.00	0.00	O
ATOM	118	CB	PRO A	11130.946	15.355	1.283	1.00	0.00	C
ATOM	119	CG	PRO A	11129.966	14.479	1.987	1.00	0.00	C
ATOM	120	CD	PRO A	11130.402	13.063	1.735	1.00	0.00	C
ATOM	121	HA	PRO A	11130.931	14.840	-0.803	1.00	0.00	H
ATOM	122	1HB	PRO A	11131.778	15.610	1.923	1.00	0.00	H
ATOM	123	2HB	PRO A	11130.476	16.258	0.923	1.00	0.00	H
ATOM	124	1HG	PRO A	11129.982	14.690	3.045	1.00	0.00	H
ATOM	125	2HG	PRO A	11128.975	14.641	1.587	1.00	0.00	H
ATOM	126	1HD	PRO A	11131.065	12.727	2.519	1.00	0.00	H
ATOM	127	2HD	PRO A	11129.544	12.412	1.659	1.00	0.00	H
ATOM	128	N	PRO A	12133.779	14.235	0.835	1.00	0.00	N
ATOM	129	CA	PRO A	12135.238	14.369	0.742	1.00	0.00	C
ATOM	130	C	PRO A	12135.783	13.801	-0.562	1.00	0.00	C
ATOM	131	O	PRO A	12136.871	14.169	-1.006	1.00	0.00	O
ATOM	132	CB	PRO A	12135.755	13.558	1.934	1.00	0.00	C
ATOM	133	CG	PRO A	12134.615	13.509	2.890	1.00	0.00	C
ATOM	134	CD	PRO A	12133.371	13.501	2.049	1.00	0.00	C
ATOM	135	HA	PRO A	12135.546	15.399	0.841	1.00	0.00	H
ATOM	136	1HB	PRO A	12136.037	12.568	1.604	1.00	0.00	H

ATOM	137	2HB	PRO A	12136.611	14.055	2.366	1.00	0.00	H
ATOM	138	1HG	PRO A	12134.672	12.609	3.484	1.00	0.00	H
ATOM	139	2HG	PRO A	12134.632	14.382	3.526	1.00	0.00	H
ATOM	140	1HD	PRO A	12133.084	12.488	1.809	1.00	0.00	H
ATOM	141	2HD	PRO A	12132.570	14.012	2.558	1.00	0.00	H
ATOM	142	N	GLY A	13135.020	12.900	-1.175	1.00	0.00	N
ATOM	143	CA	GLY A	13135.443	12.293	-2.423	1.00	0.00	C
ATOM	144	C	GLY A	13135.739	10.814	-2.278	1.00	0.00	C
ATOM	145	O	GLY A	13135.196	10.149	-1.395	1.00	0.00	O
ATOM	146	H	GLY A	13134.162	12.644	-0.774	1.00	0.00	H
ATOM	147	1HA	GLY A	13134.662	12.423	-3.156	1.00	0.00	H
ATOM	148	2HA	GLY A	13136.335	12.795	-2.771	1.00	0.00	H
ATOM	149	N	ASN A	14136.601	10.296	-3.147	1.00	0.00	N
ATOM	150	CA	ASN A	14136.968	8.885	-3.112	1.00	0.00	C
ATOM	151	C	ASN A	14135.742	7.999	-3.313	1.00	0.00	C
ATOM	152	O	ASN A	14134.635	8.494	-3.530	1.00	0.00	O
ATOM	153	CB	ASN A	14137.644	8.545	-1.783	1.00	0.00	C
ATOM	154	CG	ASN A	14138.954	9.284	-1.595	1.00	0.00	C
ATOM	155	OD1	ASN A	14139.305	10.161	-2.385	1.00	0.00	O
ATOM	156	ND2	ASN A	14139.687	8.933	-0.545	1.00	0.00	N
ATOM	157	H	ASN A	14137.000	10.876	-3.828	1.00	0.00	H
ATOM	158	HA	ASN A	14137.664	8.704	-3.917	1.00	0.00	H
ATOM	159	1HB	ASN A	14136.983	8.810	-0.971	1.00	0.00	H
ATOM	160	2HB	ASN A	14137.842	7.484	-1.747	1.00	0.00	H
ATOM	161	1HD2	ASN A	14139.345	8.227	0.043	1.00	0.00	H
ATOM	162	2HD2	ASN A	14140.538	9.395	-0.399	1.00	0.00	H
ATOM	163	N	SER A	15135.948	6.689	-3.242	1.00	0.00	N
ATOM	164	CA	SER A	15134.858	5.734	-3.416	1.00	0.00	C
ATOM	165	C	SER A	15133.890	5.791	-2.239	1.00	0.00	C
ATOM	166	O	SER A	15132.711	6.101	-2.407	1.00	0.00	O
ATOM	167	CB	SER A	15135.414	4.317	-3.566	1.00	0.00	C

ATOM	168	OG	SER A	15136.208	3.959	-2.448	1.00	0.00	O
ATOM	169	H	SER A	15136.852	6.355	-3.068	1.00	0.00	H
ATOM	170	HA	SER A	15134.326	5.999	-4.317	1.00	0.00	H
ATOM	171	1HB	SER A	15134.595	3.618	-3.647	1.00	0.00	H
ATOM	172	2HB	SER A	15136.023	4.263	-4.456	1.00	0.00	H
ATOM	173	HG	SER A	15137.082	3.698	-2.747	1.00	0.00	H
ATOM	174	N	HIS A	16134.398	5.491	-1.048	1.00	0.00	N
ATOM	175	CA	HIS A	16133.578	5.509	0.159	1.00	0.00	C
ATOM	176	C	HIS A	16134.260	6.307	1.267	1.00	0.00	C
ATOM	177	O	HIS A	16133.836	7.413	1.599	1.00	0.00	O
ATOM	178	CB	HIS A	16133.304	4.080	0.634	1.00	0.00	C
ATOM	179	CG	HIS A	16131.900	3.624	0.378	1.00	0.00	C
ATOM	180	ND1	HIS A	16131.007	3.335	1.388	1.00	0.00	N
ATOM	181	CD2	HIS A	16131.237	3.409	-0.782	1.00	0.00	C
ATOM	182	CE1	HIS A	16129.855	2.961	0.860	1.00	0.00	C
ATOM	183	NE2	HIS A	16129.968	2.997	-0.455	1.00	0.00	N
ATOM	184	H	HIS A	16135.345	5.253	-0.978	1.00	0.00	H
ATOM	185	HA	HIS A	16132.640	5.984	-0.086	1.00	0.00	H
ATOM	186	1HB	HIS A	16133.970	3.403	0.122	1.00	0.00	H
ATOM	187	2HB	HIS A	16133.485	4.019	1.698	1.00	0.00	H
ATOM	188	HD1	HIS A	16131.190	3.395	2.350	1.00	0.00	H
ATOM	189	HD2	HIS A	16131.632	3.536	-1.780	1.00	0.00	H
ATOM	190	HE1	HIS A	16128.971	2.675	1.411	1.00	0.00	H
ATOM	191	HE2	HIS A	16129.289	2.685	-1.088	1.00	0.00	H
ATOM	192	N	GLY A	17135.318	5.736	1.834	1.00	0.00	N
ATOM	193	CA	GLY A	17136.041	6.408	2.898	1.00	0.00	C
ATOM	194	C	GLY A	17137.368	5.742	3.205	1.00	0.00	C
ATOM	195	O	GLY A	17137.614	5.325	4.336	1.00	0.00	O
ATOM	196	H	GLY A	17135.609	4.853	1.527	1.00	0.00	H
ATOM	197	1HA	GLY A	17136.223	7.431	2.604	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.433	6.403	3.791	1.00	0.00	H

ATOM	199	N	LEU A	18138.224	5.641	2.194	1.00	0.00	N
ATOM	200	CA	LEU A	18139.533	5.020	2.360	1.00	0.00	C
ATOM	201	C	LEU A	18140.585	6.058	2.735	1.00	0.00	C
ATOM	202	O	LEU A	18140.997	6.868	1.904	1.00	0.00	O
ATOM	203	CB	LEU A	18139.946	4.299	1.074	1.00	0.00	C
ATOM	204	CG	LEU A	18138.884	3.370	0.484	1.00	0.00	C
ATOM	205	CD1	LEU A	18139.224	3.020	-0.957	1.00	0.00	C
ATOM	206	CD2	LEU A	18138.754	2.110	1.325	1.00	0.00	C
ATOM	207	H	LEU A	18137.969	5.991	1.314	1.00	0.00	H
ATOM	208	HA	LEU A	18139.458	4.296	3.158	1.00	0.00	H
ATOM	209	1HB	LEU A	18140.195	5.046	0.333	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.828	3.714	1.282	1.00	0.00	H
ATOM	211	HG	LEU A	18137.929	3.877	0.487	1.00	0.00	H
ATOM	212	1HD1	LEU A	18140.293	3.082	-1.099	1.00	0.00	H
ATOM	213	2HD1	LEU A	18138.731	3.712	-1.622	1.00	0.00	H
ATOM	214	3HD1	LEU A	18138.890	2.015	-1.171	1.00	0.00	H
ATOM	215	1HD2	LEU A	18139.718	1.634	1.411	1.00	0.00	H
ATOM	216	2HD2	LEU A	18138.058	1.432	0.852	1.00	0.00	H
ATOM	217	3HD2	LEU A	18138.390	2.369	2.308	1.00	0.00	H
ATOM	218	N	GLU A	19141.017	6.028	3.992	1.00	0.00	N
ATOM	219	CA	GLU A	19142.022	6.965	4.478	1.00	0.00	C
ATOM	220	C	GLU A	19143.071	6.248	5.321	1.00	0.00	C
ATOM	221	O	GLU A	19143.018	5.031	5.491	1.00	0.00	O
ATOM	222	CB	GLU A	19141.360	8.074	5.299	1.00	0.00	C
ATOM	223	CG	GLU A	19140.503	7.556	6.441	1.00	0.00	C
ATOM	224	CD	GLU A	19139.214	8.339	6.604	1.00	0.00	C
ATOM	225	OE1	GLU A	19138.659	8.787	5.579	1.00	0.00	O
ATOM	226	OE2	GLU A	19138.761	8.502	7.756	1.00	0.00	O
ATOM	227	H	GLU A	19140.651	5.358	4.607	1.00	0.00	H
ATOM	228	HA	GLU A	19142.506	7.405	3.619	1.00	0.00	H
ATOM	229	1HB	GLU A	19142.132	8.706	5.714	1.00	0.00	H

ATOM	230	2HB	GLU A	19140.735	8.664	4.646	1.00	0.00	H
ATOM	231	1HG	GLU A	19140.256	6.523	6.249	1.00	0.00	H
ATOM	232	2HG	GLU A	19141.068	7.626	7.359	1.00	0.00	H
ATOM	233	N	VAL A	20144.023	7.011	5.846	1.00	0.00	N
ATOM	234	CA	VAL A	20145.085	6.447	6.672	1.00	0.00	C
ATOM	235	C	VAL A	20144.518	5.816	7.939	1.00	0.00	C
ATOM	236	O	VAL A	20143.685	6.411	8.621	1.00	0.00	O
ATOM	237	CB	VAL A	20146.122	7.518	7.065	1.00	0.00	C
ATOM	238	CG1	VAL A	20147.296	6.884	7.795	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.598	8.279	5.835	1.00	0.00	C
ATOM	240	H	VAL A	20144.013	7.976	5.675	1.00	0.00	H
ATOM	241	HA	VAL A	20145.587	5.685	6.095	1.00	0.00	H
ATOM	242	HB	VAL A	20145.648	8.220	7.734	1.00	0.00	H
ATOM	243	1HG1	VAL A	20148.120	7.582	7.825	1.00	0.00	H
ATOM	244	2HG1	VAL A	20147.602	5.988	7.276	1.00	0.00	H
ATOM	245	3HG1	VAL A	20147.000	6.632	8.802	1.00	0.00	H
ATOM	246	1HG2	VAL A	20146.673	9.330	6.069	1.00	0.00	H
ATOM	247	2HG2	VAL A	20145.893	8.139	5.029	1.00	0.00	H
ATOM	248	3HG2	VAL A	20147.567	7.907	5.535	1.00	0.00	H
ATOM	249	N	GLY A	21144.974	4.607	8.247	1.00	0.00	N
ATOM	250	CA	GLY A	21144.501	3.914	9.431	1.00	0.00	C
ATOM	251	C	GLY A	21143.495	2.828	9.106	1.00	0.00	C
ATOM	252	O	GLY A	21143.520	1.751	9.699	1.00	0.00	O
ATOM	253	H	GLY A	21145.639	4.181	7.665	1.00	0.00	H
ATOM	254	1HA	GLY A	21145.347	3.468	9.935	1.00	0.00	H
ATOM	255	2HA	GLY A	21144.040	4.631	10.093	1.00	0.00	H
ATOM	256	N	SER A	22142.605	3.114	8.159	1.00	0.00	N
ATOM	257	CA	SER A	22141.584	2.153	7.757	1.00	0.00	C
ATOM	258	C	SER A	22142.168	1.099	6.821	1.00	0.00	C
ATOM	259	O	SER A	22143.084	1.379	6.049	1.00	0.00	O
ATOM	260	CB	SER A	22140.421	2.872	7.070	1.00	0.00	C

ATOM	261	OG	SER A	22139.627	3.571	8.012	1.00	0.00	O
ATOM	262	H	SER A	22142.636	3.990	7.723	1.00	0.00	H
ATOM	263	HA	SER A	22141.218	1.664	8.647	1.00	0.00	H
ATOM	264	1HB	SER A	22140.810	3.578	6.352	1.00	0.00	H
ATOM	265	2HB	SER A	22139.803	2.146	6.563	1.00	0.00	H
ATOM	266	HG	SER A	22139.120	4.251	7.562	1.00	0.00	H
ATOM	267	N	LEU A	23141.632	-0.115	6.897	1.00	0.00	N
ATOM	268	CA	LEU A	23142.098	-1.212	6.057	1.00	0.00	C
ATOM	269	C	LEU A	23141.431	-1.171	4.687	1.00	0.00	C
ATOM	270	O	LEU A	23140.263	-0.802	4.564	1.00	0.00	O
ATOM	271	CB	LEU A	23141.820	-2.555	6.734	1.00	0.00	C
ATOM	272	CG	LEU A	23142.685	-2.855	7.958	1.00	0.00	C
ATOM	273	CD1	LEU A	23141.930	-3.730	8.945	1.00	0.00	C
ATOM	274	CD2	LEU A	23143.986	-3.523	7.539	1.00	0.00	C
ATOM	275	H	LEU A	23140.904	-0.277	7.533	1.00	0.00	H
ATOM	276	HA	LEU A	23143.165	-1.098	5.928	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.783	-2.572	7.039	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.978	-3.339	6.009	1.00	0.00	H
ATOM	279	HG	LEU A	23142.929	-1.927	8.454	1.00	0.00	H
ATOM	280	1HD1	LEU A	23142.506	-3.832	9.853	1.00	0.00	H
ATOM	281	2HD1	LEU A	23141.767	-4.705	8.511	1.00	0.00	H
ATOM	282	3HD1	LEU A	23140.977	-3.276	9.173	1.00	0.00	H
ATOM	283	1HD2	LEU A	23144.455	-2.941	6.758	1.00	0.00	H
ATOM	284	2HD2	LEU A	23143.779	-4.517	7.171	1.00	0.00	H
ATOM	285	3HD2	LEU A	23144.650	-3.584	8.389	1.00	0.00	H
ATOM	286	N	ALAA	24142.180	-1.554	3.658	1.00	0.00	N
ATOM	287	CA	ALAA	24141.661	-1.562	2.296	1.00	0.00	C
ATOM	288	C	ALAA	24142.228	-2.732	1.500	1.00	0.00	C
ATOM	289	O	ALAA	24143.420	-3.033	1.583	1.00	0.00	O
ATOM	290	CB	ALAA	24141.979	-0.245	1.603	1.00	0.00	C
ATOM	291	H	ALAA	24143.104	-1.837	3.819	1.00	0.00	H

ATOM	292	HA	ALA	A	24140.587	-1.663	2.349	1.00	0.00	H
ATOM	293	1HB	ALA	A	24142.874	-0.358	1.009	1.00	0.00	H
ATOM	294	2HB	ALA	A	24142.134	0.524	2.345	1.00	0.00	H
ATOM	295	3HB	ALA	A	24141.155	0.033	0.962	1.00	0.00	H
ATOM	296	N	GLU	A	25141.369	-3.388	0.727	1.00	0.00	N
ATOM	297	CA	GLU	A	25141.786	-4.526	-0.084	1.00	0.00	C
ATOM	298	C	GLU	A	25141.885	-4.138	-1.555	1.00	0.00	C
ATOM	299	O	GLU	A	25140.962	-3.548	-2.117	1.00	0.00	O
ATOM	300	CB	GLU	A	25140.802	-5.686	0.084	1.00	0.00	C
ATOM	301	CG	GLU	A	25141.261	-6.974	-0.579	1.00	0.00	C
ATOM	302	CD	GLU	A	25140.550	-7.240	-1.891	1.00	0.00	C
ATOM	303	OE1	GLU	A	25140.211	-8.414	-2.155	1.00	0.00	O
ATOM	304	OE2	GLU	A	25140.330	-6.277	-2.654	1.00	0.00	O
ATOM	305	H	GLU	A	25140.432	-3.101	0.703	1.00	0.00	H
ATOM	306	HA	GLU	A	25142.759	-4.839	0.261	1.00	0.00	H
ATOM	307	1HB	GLU	A	25140.665	-5.878	1.138	1.00	0.00	H
ATOM	308	2HB	GLU	A	25139.853	-5.403	-0.348	1.00	0.00	H
ATOM	309	1HG	GLU	A	25142.322	-6.906	-0.771	1.00	0.00	H
ATOM	310	2HG	GLU	A	25141.069	-7.798	0.092	1.00	0.00	H
ATOM	311	N	VAL	A	26143.013	-4.472	-2.175	1.00	0.00	N
ATOM	312	CA	VAL	A	26143.234	-4.159	-3.582	1.00	0.00	C
ATOM	313	C	VAL	A	26142.875	-5.344	-4.470	1.00	0.00	C
ATOM	314	O	VAL	A	26143.102	-6.498	-4.106	1.00	0.00	O
ATOM	315	CB	VAL	A	26144.698	-3.759	-3.844	1.00	0.00	C
ATOM	316	CG1	VAL	A	26144.864	-3.239	-5.263	1.00	0.00	C
ATOM	317	CG2	VAL	A	26145.159	-2.722	-2.830	1.00	0.00	C
ATOM	318	H	VAL	A	26143.712	-4.941	-1.674	1.00	0.00	H
ATOM	319	HA	VAL	A	26142.602	-3.322	-3.840	1.00	0.00	H
ATOM	320	HB	VAL	A	26145.315	-4.638	-3.733	1.00	0.00	H
ATOM	321	1HG1	VAL	A	26143.919	-2.852	-5.618	1.00	0.00	H
ATOM	322	2HG1	VAL	A	26145.187	-4.044	-5.907	1.00	0.00	H

ATOM	323	3HG1	VAL A	26145.602	-2.450	-5.274	1.00	0.00	H
ATOM	324	1HG2	VAL A	26145.819	-2.017	-3.312	1.00	0.00	H
ATOM	325	2HG2	VAL A	26145.683	-3.214	-2.026	1.00	0.00	H
ATOM	326	3HG2	VAL A	26144.300	-2.200	-2.434	1.00	0.00	H
ATOM	327	N	LYS A	27142.313	-5.052	-5.639	1.00	0.00	N
ATOM	328	CA	LYS A	27141.922	-6.094	-6.581	1.00	0.00	C
ATOM	329	C	LYS A	27143.099	-6.503	-7.462	1.00	0.00	C
ATOM	330	O	LYS A	27143.028	-6.423	-8.689	1.00	0.00	O
ATOM	331	CB	LYS A	27140.758	-5.616	-7.450	1.00	0.00	C
ATOM	332	CG	LYS A	27139.941	-6.748	-8.051	1.00	0.00	C
ATOM	333	CD	LYS A	27138.455	-6.426	-8.056	1.00	0.00	C
ATOM	334	CE	LYS A	27138.093	-5.490	-9.199	1.00	0.00	C
ATOM	335	NZ	LYS A	27136.757	-5.806	-9.773	1.00	0.00	N
ATOM	336	H	LYS A	27142.157	-4.114	-5.874	1.00	0.00	H
ATOM	337	HA	LYS A	27141.603	-6.954	-6.009	1.00	0.00	H
ATOM	338	1HB	LYS A	27140.100	-5.008	-6.846	1.00	0.00	H
ATOM	339	2HB	LYS A	27141.148	-5.014	-8.257	1.00	0.00	H
ATOM	340	1HG	LYS A	27140.267	-6.913	-9.068	1.00	0.00	H
ATOM	341	2HG	LYS A	27140.104	-7.644	-7.470	1.00	0.00	H
ATOM	342	1HD	LYS A	27137.898	-7.344	-8.166	1.00	0.00	H
ATOM	343	2HD	LYS A	27138.196	-5.954	-7.120	1.00	0.00	H
ATOM	344	1HE	LYS A	27138.083	-4.476	-8.826	1.00	0.00	H
ATOM	345	2HE	LYS A	27138.840	-5.581	-9.973	1.00	0.00	H
ATOM	346	1HZ	LYS A	27136.863	-6.410	-10.613	1.00	0.00	H
ATOM	347	2HZ	LYS A	27136.269	-4.931	-10.049	1.00	0.00	H
ATOM	348	3HZ	LYS A	27136.175	-6.307	-9.072	1.00	0.00	H
ATOM	349	N	GLU A	28144.182	-6.941	-6.829	1.00	0.00	N
ATOM	350	CA	GLU A	28145.374	-7.363	-7.554	1.00	0.00	C
ATOM	351	C	GLU A	28145.422	-8.882	-7.682	1.00	0.00	C
ATOM	352	O	GLU A	28144.507	-9.581	-7.248	1.00	0.00	O
ATOM	353	CB	GLU A	28146.634	-6.857	-6.845	1.00	0.00	C

ATOM	354	CG	GLU A	28147.639	-6.209	-7.782	1.00	0.00	C
ATOM	355	CD	GLU A	28148.605	-5.292	-7.057	1.00	0.00	C
ATOM	356	OE1	GLU A	28148.525	-4.063	-7.264	1.00	0.00	O
ATOM	357	OE2	GLU A	28149.440	-5.803	-6.282	1.00	0.00	O
ATOM	358	H	GLU A	28144.179	-6.982	-5.849	1.00	0.00	H
ATOM	359	HA	GLU A	28145.331	-6.931	-8.542	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.346	-6.129	-6.102	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.116	-7.689	-6.354	1.00	0.00	H
ATOM	362	1HG	GLU A	28148.206	-6.984	-8.275	1.00	0.00	H
ATOM	363	2HG	GLU A	28147.103	-5.631	-8.521	1.00	0.00	H
ATOM	364	N	ASN A	29146.495	-9.387	-8.282	1.00	0.00	N
ATOM	365	CA	ASN A	29146.661	-10.823	-8.467	1.00	0.00	C
ATOM	366	C	ASN A	29146.743	-11.539	-7.120	1.00	0.00	C
ATOM	367	O	ASN A	29145.928	-12.410	-6.820	1.00	0.00	O
ATOM	368	CB	ASN A	29147.918	-11.112	-9.291	1.00	0.00	C
ATOM	369	CG	ASN A	29147.608	-11.324	-10.760	1.00	0.00	C
ATOM	370	OD1	ASN A	29147.598	-12.454	-11.248	1.00	0.00	O
ATOM	371	ND2	ASN A	29147.356	-10.233	-11.475	1.00	0.00	N
ATOM	372	H	ASN A	29147.192	-8.780	-8.608	1.00	0.00	H
ATOM	373	HA	ASN A	29145.798	-11.190	-9.003	1.00	0.00	H
ATOM	374	1HB	ASN A	29148.598	-10.277	-9.203	1.00	0.00	H
ATOM	375	2HB	ASN A	29148.395	-12.002	-8.910	1.00	0.00	H
ATOM	376	1HD2	ASN A	29147.382	-9.365	-11.020	1.00	0.00	H
ATOM	377	2HD2	ASN A	29147.152	-10.341	-12.427	1.00	0.00	H
ATOM	378	N	PRO A	30147.733	-11.175	-6.287	1.00	0.00	N
ATOM	379	CA	PRO A	30147.919	-11.784	-4.967	1.00	0.00	C
ATOM	380	C	PRO A	30146.921	-11.253	-3.938	1.00	0.00	C
ATOM	381	O	PRO A	30147.010	-10.099	-3.519	1.00	0.00	O
ATOM	382	CB	PRO A	30149.341	-11.369	-4.593	1.00	0.00	C
ATOM	383	CG	PRO A	30149.544	-10.067	-5.286	1.00	0.00	C
ATOM	384	CD	PRO A	30148.751	-10.141	-6.565	1.00	0.00	C

ATOM	385	HA	PRO A	30147.855	-12.860	-5.014	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.419	-11.265	-3.521	1.00	0.00	H
ATOM	387	2HB	PRO A	30150.040	-12.115	-4.942	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.181	-9.261	-4.667	1.00	0.00	H
ATOM	389	2HG	PRO A	30150.593	-9.927	-5.506	1.00	0.00	H
ATOM	390	1HD	PRO A	30148.285	-9.191	-6.775	1.00	0.00	H
ATOM	391	2HD	PRO A	30149.386	-10.439	-7.385	1.00	0.00	H
ATOM	392	N	PRO A	31145.956	-12.087	-3.514	1.00	0.00	N
ATOM	393	CA	PRO A	31144.946	-11.687	-2.529	1.00	0.00	C
ATOM	394	C	PRO A	31145.541	-11.490	-1.138	1.00	0.00	C
ATOM	395	O	PRO A	31145.621	-12.431	-0.349	1.00	0.00	O
ATOM	396	CB	PRO A	31143.962	-12.857	-2.529	1.00	0.00	C
ATOM	397	CG	PRO A	31144.764	-14.027	-2.981	1.00	0.00	C
ATOM	398	CD	PRO A	31145.771	-13.483	-3.957	1.00	0.00	C
ATOM	399	HA	PRO A	31144.436	-10.783	-2.831	1.00	0.00	H
ATOM	400	1HB	PRO A	31143.574	-13.006	-1.531	1.00	0.00	H
ATOM	401	2HB	PRO A	31143.149	-12.649	-3.209	1.00	0.00	H
ATOM	402	1HG	PRO A	31145.264	-14.479	-2.137	1.00	0.00	H
ATOM	403	2HG	PRO A	31144.123	-14.746	-3.468	1.00	0.00	H
ATOM	404	1HD	PRO A	31146.697	-14.035	-3.889	1.00	0.00	H
ATOM	405	2HD	PRO A	31145.380	-13.519	-4.963	1.00	0.00	H
ATOM	406	N	PHE A	32145.954	-10.262	-0.844	1.00	0.00	N
ATOM	407	CA	PHE A	32146.541	-9.942	0.452	1.00	0.00	C
ATOM	408	C	PHE A	32145.685	-8.925	1.201	1.00	0.00	C
ATOM	409	O	PHE A	32144.726	-8.383	0.652	1.00	0.00	O
ATOM	410	CB	PHE A	32147.959	-9.398	0.273	1.00	0.00	C
ATOM	411	CG	PHE A	32148.045	-8.250	-0.693	1.00	0.00	C
ATOM	412	CD1	PHE A	32148.676	-8.404	-1.917	1.00	0.00	C
ATOM	413	CD2	PHE A	32147.495	-7.019	-0.376	1.00	0.00	C
ATOM	414	CE1	PHE A	32148.757	-7.350	-2.808	1.00	0.00	C
ATOM	415	CE2	PHE A	32147.573	-5.962	-1.262	1.00	0.00	C

ATOM	416	CZ	PHE A	32148.205	-6.127	-2.480	1.00	0.00	C
ATOM	417	H	PHE A	32145.862	-9.553	-1.515	1.00	0.00	H
ATOM	418	HA	PHE A	32146.585	-10.853	1.030	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.329	-9.056	1.228	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.597	-10.190	-0.093	1.00	0.00	H
ATOM	421	HD1	PHE A	32149.108	-9.360	-2.174	1.00	0.00	H
ATOM	422	HD2	PHE A	32147.001	-6.889	0.575	1.00	0.00	H
ATOM	423	HE1	PHE A	32149.252	-7.482	-3.758	1.00	0.00	H
ATOM	424	HE2	PHE A	32147.140	-5.006	-1.004	1.00	0.00	H
ATOM	425	HZ	PHE A	32148.266	-5.302	-3.174	1.00	0.00	H
ATOM	426	N	TYR A	33146.038	-8.673	2.456	1.00	0.00	N
ATOM	427	CA	TYR A	33145.302	-7.722	3.281	1.00	0.00	C
ATOM	428	C	TYR A	33146.253	-6.758	3.983	1.00	0.00	C
ATOM	429	O	TYR A	33147.107	-7.174	4.765	1.00	0.00	O
ATOM	430	CB	TYR A	33144.453	-8.462	4.315	1.00	0.00	C
ATOM	431	CG	TYR A	33143.141	-8.978	3.767	1.00	0.00	C
ATOM	432	CD1	TYR A	33142.756	-10.298	3.963	1.00	0.00	C
ATOM	433	CD2	TYR A	33142.290	-8.145	3.051	1.00	0.00	C
ATOM	434	CE1	TYR A	33141.559	-10.773	3.462	1.00	0.00	C
ATOM	435	CE2	TYR A	33141.092	-8.612	2.547	1.00	0.00	C
ATOM	436	CZ	TYR A	33140.731	-9.927	2.755	1.00	0.00	C
ATOM	437	OH	TYR A	33139.538	-10.397	2.256	1.00	0.00	O
ATOM	438	H	TYR A	33146.812	-9.137	2.838	1.00	0.00	H
ATOM	439	HA	TYR A	33144.650	-7.156	2.632	1.00	0.00	H
ATOM	440	1HB	TYR A	33145.010	-9.308	4.690	1.00	0.00	H
ATOM	441	2HB	TYR A	33144.231	-7.793	5.134	1.00	0.00	H
ATOM	442	HD1	TYR A	33143.406	-10.958	4.516	1.00	0.00	H
ATOM	443	HD2	TYR A	33142.577	-7.116	2.889	1.00	0.00	H
ATOM	444	HE1	TYR A	33141.276	-11.802	3.625	1.00	0.00	H
ATOM	445	HE2	TYR A	33140.443	-7.949	1.995	1.00	0.00	H
ATOM	446	HH	TYR A	33139.663	-11.281	1.906	1.00	0.00	H

ATOM	447	N	GLY A	34146.099	-5.469	3.698	1.00	0.00	N
ATOM	448	CA	GLY A	34146.951	-4.466	4.310	1.00	0.00	C
ATOM	449	C	GLY A	34146.174	-3.251	4.775	1.00	0.00	C
ATOM	450	O	GLY A	34144.997	-3.095	4.450	1.00	0.00	O
ATOM	451	H	GLY A	34145.401	-5.196	3.066	1.00	0.00	H
ATOM	452	1HA	GLY A	34147.453	-4.907	5.160	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.693	-4.153	3.591	1.00	0.00	H
ATOM	454	N	VAL A	35146.834	-2.386	5.539	1.00	0.00	N
ATOM	455	CA	VAL A	35146.199	-1.178	6.051	1.00	0.00	C
ATOM	456	C	VAL A	35146.808	0.071	5.421	1.00	0.00	C
ATOM	457	O	VAL A	35148.011	0.125	5.164	1.00	0.00	O
ATOM	458	CB	VAL A	35146.323	-1.085	7.585	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.784	-1.017	8.004	1.00	0.00	C
ATOM	460	CG2	VAL A	35145.552	0.115	8.113	1.00	0.00	C
ATOM	461	H	VAL A	35147.771	-2.566	5.764	1.00	0.00	H
ATOM	462	HA	VAL A	35145.150	-1.221	5.797	1.00	0.00	H
ATOM	463	HB	VAL A	35145.892	-1.978	8.014	1.00	0.00	H
ATOM	464	1HG1	VAL A	35148.204	-0.071	7.695	1.00	0.00	H
ATOM	465	2HG1	VAL A	35148.330	-1.823	7.536	1.00	0.00	H
ATOM	466	3HG1	VAL A	35147.856	-1.109	9.077	1.00	0.00	H
ATOM	467	1HG2	VAL A	35145.807	0.279	9.150	1.00	0.00	H
ATOM	468	2HG2	VAL A	35144.492	-0.072	8.028	1.00	0.00	H
ATOM	469	3HG2	VAL A	35145.810	0.992	7.536	1.00	0.00	H
ATOM	470	N	ILE A	36145.971	1.073	5.176	1.00	0.00	N
ATOM	471	CA	ILE A	36146.429	2.321	4.577	1.00	0.00	C
ATOM	472	C	ILE A	36147.374	3.064	5.516	1.00	0.00	C
ATOM	473	O	ILE A	36147.092	3.216	6.705	1.00	0.00	O
ATOM	474	CB	ILE A	36145.246	3.243	4.222	1.00	0.00	C
ATOM	475	CG1	ILE A	36144.208	2.484	3.392	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.738	4.471	3.468	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.999	3.317	3.025	1.00	0.00	C

ATOM	478	H	ILE A	36145.024	0.971	5.403	1.00	0.00	H
ATOM	479	HA	ILE A	36146.957	2.080	3.666	1.00	0.00	H
ATOM	480	HB	ILE A	36144.788	3.577	5.141	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.667	2.145	2.476	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.863	1.628	3.955	1.00	0.00	H
ATOM	483	1HG2	ILE A	36145.851	5.295	4.157	1.00	0.00	H
ATOM	484	2HG2	ILE A	36145.022	4.736	2.703	1.00	0.00	H
ATOM	485	3HG2	ILE A	36146.690	4.253	3.008	1.00	0.00	H
ATOM	486	1HD1	ILE A	36143.202	4.357	3.236	1.00	0.00	H
ATOM	487	2HD1	ILE A	36142.148	2.992	3.605	1.00	0.00	H
ATOM	488	3HD1	ILE A	36142.786	3.198	1.974	1.00	0.00	H
ATOM	489	N	ARG A	37148.499	3.521	4.974	1.00	0.00	N
ATOM	490	CA	ARG A	37149.487	4.246	5.763	1.00	0.00	C
ATOM	491	C	ARG A	37149.637	5.680	5.265	1.00	0.00	C
ATOM	492	O	ARG A	37149.354	6.632	5.992	1.00	0.00	O
ATOM	493	CB	ARG A	37150.838	3.530	5.706	1.00	0.00	C
ATOM	494	CG	ARG A	37150.753	2.046	6.021	1.00	0.00	C
ATOM	495	CD	ARG A	37150.195	1.803	7.414	1.00	0.00	C
ATOM	496	NE	ARG A	37151.099	2.281	8.457	1.00	0.00	N
ATOM	497	CZ	ARG A	37150.986	1.952	9.743	1.00	0.00	C
ATOM	498	NH1	ARG A	37150.012	1.148	10.146	1.00	0.00	N
ATOM	499	NH2	ARG A	37151.853	2.429	10.626	1.00	0.00	N
ATOM	500	H	ARG A	37148.667	3.368	4.021	1.00	0.00	H
ATOM	501	HA	ARG A	37149.145	4.267	6.787	1.00	0.00	H
ATOM	502	1HB	ARG A	37151.251	3.643	4.714	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.507	3.990	6.419	1.00	0.00	H
ATOM	504	1HG	ARG A	37150.108	1.570	5.298	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.743	1.618	5.960	1.00	0.00	H
ATOM	506	1HD	ARG A	37149.251	2.321	7.505	1.00	0.00	H
ATOM	507	2HD	ARG A	37150.037	0.742	7.545	1.00	0.00	H
ATOM	508	HE	ARG A	37151.828	2.877	8.187	1.00	0.00	H

ATOM	509	1HH1	ARG A	37149.355	0.785	9.486	1.00	0.00	H
ATOM	510	2HH1	ARG A	37149.933	0.905	11.114	1.00	0.00	H
ATOM	511	1HH2	ARG A	37152.590	3.035	10.327	1.00	0.00	H
ATOM	512	2HH2	ARG A	37151.769	2.182	11.592	1.00	0.00	H
ATOM	513	N	TRP A	38150.084	5.827	4.022	1.00	0.00	N
ATOM	514	CA	TRP A	38150.270	7.146	3.428	1.00	0.00	C
ATOM	515	C	TRP A	38149.501	7.268	2.117	1.00	0.00	C
ATOM	516	O	TRP A	38149.565	6.385	1.262	1.00	0.00	O
ATOM	517	CB	TRP A	38151.761	7.418	3.190	1.00	0.00	C
ATOM	518	CG	TRP A	38152.021	8.634	2.350	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.212	9.911	2.791	1.00	0.00	C
ATOM	520	CD2	TRP A	38152.116	8.683	0.922	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.417	10.753	1.725	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.363	10.022	0.565	1.00	0.00	C
ATOM	523	CE3	TRP A	38152.014	7.725	-0.090	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.511	10.424	-0.760	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.162	8.125	-1.405	1.00	0.00	C
ATOM	526	CH2	TRP A	38152.408	9.465	-1.729	1.00	0.00	C
ATOM	527	H	TRP A	38150.293	5.030	3.491	1.00	0.00	H
ATOM	528	HA	TRP A	38149.888	7.879	4.123	1.00	0.00	H
ATOM	529	1HB	TRP A	38152.250	7.560	4.142	1.00	0.00	H
ATOM	530	2HB	TRP A	38152.198	6.566	2.690	1.00	0.00	H
ATOM	531	HD1	TRP A	38152.198	10.204	3.831	1.00	0.00	H
ATOM	532	HE1	TRP A	38152.577	11.718	1.783	1.00	0.00	H
ATOM	533	HE3	TRP A	38151.825	6.687	0.140	1.00	0.00	H
ATOM	534	HZ2	TRP A	38152.699	11.454	-1.027	1.00	0.00	H
ATOM	535	HZ3	TRP A	38152.087	7.398	-2.200	1.00	0.00	H
ATOM	536	HH2	TRP A	38152.516	9.733	-2.771	1.00	0.00	H
ATOM	537	N	ILE A	39148.781	8.374	1.963	1.00	0.00	N
ATOM	538	CA	ILE A	39148.004	8.624	0.756	1.00	0.00	C
ATOM	539	C	ILE A	39148.406	9.950	0.121	1.00	0.00	C

ATOM	540	O	ILE A	39148.069	11.019	0.631	1.00	0.00	O
ATOM	541	CB	ILE A	39146.492	8.645	1.051	1.00	0.00	C
ATOM	542	CG1	ILE A	39146.088	7.406	1.853	1.00	0.00	C
ATOM	543	CG2	ILE A	39145.699	8.725	-0.245	1.00	0.00	C
ATOM	544	CD1	ILE A	39144.772	7.560	2.583	1.00	0.00	C
ATOM	545	H	ILE A	39148.776	9.043	2.680	1.00	0.00	H
ATOM	546	HA	ILE A	39148.205	7.824	0.056	1.00	0.00	H
ATOM	547	HB	ILE A	39146.274	9.527	1.633	1.00	0.00	H
ATOM	548	1HG1	ILE A	39145.997	6.564	1.182	1.00	0.00	H
ATOM	549	2HG1	ILE A	39146.852	7.195	2.587	1.00	0.00	H
ATOM	550	1HG2	ILE A	39144.687	9.034	-0.029	1.00	0.00	H
ATOM	551	2HG2	ILE A	39145.686	7.756	-0.720	1.00	0.00	H
ATOM	552	3HG2	ILE A	39146.162	9.443	-0.905	1.00	0.00	H
ATOM	553	1HD1	ILE A	39144.751	8.514	3.089	1.00	0.00	H
ATOM	554	2HD1	ILE A	39144.666	6.766	3.306	1.00	0.00	H
ATOM	555	3HD1	ILE A	39143.960	7.512	1.874	1.00	0.00	H
ATOM	556	N	GLY A	40149.135	9.876	-0.987	1.00	0.00	N
ATOM	557	CA	GLY A	40149.575	11.083	-1.663	1.00	0.00	C
ATOM	558	C	GLY A	40150.097	10.816	-3.060	1.00	0.00	C
ATOM	559	O	GLY A	40149.921	9.724	-3.600	1.00	0.00	O
ATOM	560	H	GLY A	40149.378	8.997	-1.348	1.00	0.00	H
ATOM	561	1HA	GLY A	40148.745	11.769	-1.727	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.359	11.540	-1.079	1.00	0.00	H
ATOM	563	N	GLN A	41150.741	11.820	-3.644	1.00	0.00	N
ATOM	564	CA	GLN A	41151.294	11.701	-4.987	1.00	0.00	C
ATOM	565	C	GLN A	41152.768	12.102	-5.001	1.00	0.00	C
ATOM	566	O	GLN A	41153.105	13.259	-4.749	1.00	0.00	O
ATOM	567	CB	GLN A	41150.504	12.581	-5.956	1.00	0.00	C
ATOM	568	CG	GLN A	41148.998	12.402	-5.849	1.00	0.00	C
ATOM	569	CD	GLN A	41148.246	13.712	-5.972	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.223	14.518	-5.040	1.00	0.00	O

ATOM	571	NE2	GLN	A	41147.627	13.933	-7.125	1.00	0.00	N
ATOM	572	H	GLN	A	41150.847	12.665	-3.160	1.00	0.00	H
ATOM	573	HA	GLN	A	41151.205	10.672	-5.295	1.00	0.00	H
ATOM	574	1HB	GLN	A	41150.737	13.616	-5.753	1.00	0.00	H
ATOM	575	2HB	GLN	A	41150.804	12.344	-6.964	1.00	0.00	H
ATOM	576	1HG	GLN	A	41148.670	11.741	-6.637	1.00	0.00	H
ATOM	577	2HG	GLN	A	41148.767	11.960	-4.891	1.00	0.00	H
ATOM	578	1HE2	GLN	A	41147.689	13.246	-7.822	1.00	0.00	H
ATOM	579	2HE2	GLN	A	41147.135	14.773	-7.233	1.00	0.00	H
ATOM	580	N	PRO	A	42153.674	11.150	-5.295	1.00	0.00	N
ATOM	581	CA	PRO	A	42155.115	11.422	-5.336	1.00	0.00	C
ATOM	582	C	PRO	A	42155.468	12.529	-6.324	1.00	0.00	C
ATOM	583	O	PRO	A	42154.696	12.830	-7.233	1.00	0.00	O
ATOM	584	CB	PRO	A	42155.723	10.089	-5.787	1.00	0.00	C
ATOM	585	CG	PRO	A	42154.699	9.066	-5.440	1.00	0.00	C
ATOM	586	CD	PRO	A	42153.371	9.743	-5.609	1.00	0.00	C
ATOM	587	HA	PRO	A	42155.495	11.680	-4.358	1.00	0.00	H
ATOM	588	1HB	PRO	A	42155.909	10.118	-6.851	1.00	0.00	H
ATOM	589	2HB	PRO	A	42156.648	9.915	-5.259	1.00	0.00	H
ATOM	590	1HG	PRO	A	42154.778	8.222	-6.110	1.00	0.00	H
ATOM	591	2HG	PRO	A	42154.830	8.746	-4.416	1.00	0.00	H
ATOM	592	1HD	PRO	A	42153.021	9.641	-6.626	1.00	0.00	H
ATOM	593	2HD	PRO	A	42152.648	9.341	-4.916	1.00	0.00	H
ATOM	594	N	PRO	A	43156.647	13.151	-6.158	1.00	0.00	N
ATOM	595	CA	PRO	A	43157.102	14.228	-7.040	1.00	0.00	C
ATOM	596	C	PRO	A	43157.497	13.719	-8.421	1.00	0.00	C
ATOM	597	O	PRO	A	43158.662	13.408	-8.668	1.00	0.00	O
ATOM	598	CB	PRO	A	43158.322	14.792	-6.312	1.00	0.00	C
ATOM	599	CG	PRO	A	43158.835	13.657	-5.497	1.00	0.00	C
ATOM	600	CD	PRO	A	43157.629	12.850	-5.098	1.00	0.00	C
ATOM	601	HA	PRO	A	43156.351	14.999	-7.142	1.00	0.00	H

ATOM	602	1HB	PRO A	43159.052	15.121	-7.037	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.023	15.622	-5.691	1.00	0.00	H
ATOM	604	1HG	PRO A	43159.510	13.056	-6.088	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.339	14.035	-4.619	1.00	0.00	H
ATOM	606	1HD	PRO A	43157.869	11.797	-5.082	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.264	13.170	-4.134	1.00	0.00	H
ATOM	608	N	GLY A	44156.521	13.636	-9.317	1.00	0.00	N
ATOM	609	CA	GLY A	44156.790	13.162	-10.661	1.00	0.00	C
ATOM	610	C	GLY A	44155.552	12.623	-11.346	1.00	0.00	C
ATOM	611	O	GLY A	44155.237	13.014	-12.471	1.00	0.00	O
ATOM	612	H	GLY A	44155.610	13.897	-9.064	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.183	13.980	-11.245	1.00	0.00	H
ATOM	614	2HA	GLY A	44157.532	12.380	-10.613	1.00	0.00	H
ATOM	615	N	LEU A	45154.848	11.724	-10.670	1.00	0.00	N
ATOM	616	CA	LEU A	45153.637	11.131	-11.224	1.00	0.00	C
ATOM	617	C	LEU A	45152.440	11.401	-10.319	1.00	0.00	C
ATOM	618	O	LEU A	45152.369	10.888	-9.203	1.00	0.00	O
ATOM	619	CB	LEU A	45153.820	9.623	-11.409	1.00	0.00	C
ATOM	620	CG	LEU A	45154.384	8.886	-10.192	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.025	7.407	-10.247	1.00	0.00	C
ATOM	622	CD2	LEU A	45155.893	9.072	-10.107	1.00	0.00	C
ATOM	623	H	LEU A	45155.148	11.452	-9.775	1.00	0.00	H
ATOM	624	HA	LEU A	45153.455	11.583	-12.186	1.00	0.00	H
ATOM	625	1HB	LEU A	45152.860	9.192	-11.653	1.00	0.00	H
ATOM	626	2HB	LEU A	45154.490	9.462	-12.240	1.00	0.00	H
ATOM	627	HG	LEU A	45153.945	9.301	-9.295	1.00	0.00	H
ATOM	628	1HD1	LEU A	45153.490	7.134	-9.349	1.00	0.00	H
ATOM	629	2HD1	LEU A	45154.928	6.819	-10.320	1.00	0.00	H
ATOM	630	3HD1	LEU A	45153.402	7.218	-11.108	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.162	9.381	-9.108	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.205	9.827	-10.813	1.00	0.00	H

ATOM	633	3HD2	LEU	A	45156.385	8.138	-10.339	1.00	0.00	H
ATOM	634	N	ASN	A	46151.505	12.210	-10.803	1.00	0.00	N
ATOM	635	CA	ASN	A	46150.318	12.539	-10.025	1.00	0.00	C
ATOM	636	C	ASN	A	46149.367	11.349	-9.971	1.00	0.00	C
ATOM	637	O	ASN	A	46148.723	11.008	-10.964	1.00	0.00	O
ATOM	638	CB	ASN	A	46149.608	13.751	-10.630	1.00	0.00	C
ATOM	639	CG	ASN	A	46148.879	14.574	-9.586	1.00	0.00	C
ATOM	640	OD1	ASN	A	46147.654	14.691	-9.615	1.00	0.00	O
ATOM	641	ND2	ASN	A	46149.632	15.152	-8.657	1.00	0.00	N
ATOM	642	H	ASN	A	46151.613	12.592	-11.699	1.00	0.00	H
ATOM	643	HA	ASN	A	46150.633	12.780	-9.020	1.00	0.00	H
ATOM	644	1HB	ASN	A	46150.337	14.383	-11.114	1.00	0.00	H
ATOM	645	2HB	ASN	A	46148.889	13.411	-11.361	1.00	0.00	H
ATOM	646	1HD2	ASN	A	46150.602	15.015	-8.696	1.00	0.00	H
ATOM	647	2HD2	ASN	A	46149.188	15.690	-7.970	1.00	0.00	H
ATOM	648	N	GLU	A	47149.285	10.721	-8.804	1.00	0.00	N
ATOM	649	CA	GLU	A	47148.415	9.568	-8.612	1.00	0.00	C
ATOM	650	C	GLU	A	47148.262	9.248	-7.130	1.00	0.00	C
ATOM	651	O	GLU	A	47149.245	8.978	-6.440	1.00	0.00	O
ATOM	652	CB	GLU	A	47148.970	8.349	-9.354	1.00	0.00	C
ATOM	653	CG	GLU	A	47150.485	8.230	-9.290	1.00	0.00	C
ATOM	654	CD	GLU	A	47151.036	7.254	-10.311	1.00	0.00	C
ATOM	655	OE1	GLU	A	47151.168	7.641	-11.491	1.00	0.00	O
ATOM	656	OE2	GLU	A	47151.336	6.103	-9.930	1.00	0.00	O
ATOM	657	H	GLU	A	47149.824	11.041	-8.052	1.00	0.00	H
ATOM	658	HA	GLU	A	47147.445	9.813	-9.017	1.00	0.00	H
ATOM	659	1HB	GLU	A	47148.543	7.455	-8.923	1.00	0.00	H
ATOM	660	2HB	GLU	A	47148.680	8.411	-10.392	1.00	0.00	H
ATOM	661	1HG	GLU	A	47150.917	9.201	-9.474	1.00	0.00	H
ATOM	662	2HG	GLU	A	47150.767	7.894	-8.303	1.00	0.00	H
ATOM	663	N	VAL	A	48147.026	9.273	-6.644	1.00	0.00	N

ATOM	664	CA	VAL A	48146.758	8.977	-5.243	1.00	0.00	C
ATOM	665	C	VAL A	48147.120	7.533	-4.918	1.00	0.00	C
ATOM	666	O	VAL A	48146.338	6.615	-5.169	1.00	0.00	O
ATOM	667	CB	VAL A	48145.279	9.219	-4.888	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.066	9.114	-3.386	1.00	0.00	C
ATOM	669	CG2	VAL A	48144.820	10.574	-5.405	1.00	0.00	C
ATOM	670	H	VAL A	48146.280	9.489	-7.241	1.00	0.00	H
ATOM	671	HA	VAL A	48147.366	9.636	-4.640	1.00	0.00	H
ATOM	672	HB	VAL A	48144.684	8.455	-5.368	1.00	0.00	H
ATOM	673	1HG1	VAL A	48145.014	8.072	-3.102	1.00	0.00	H
ATOM	674	2HG1	VAL A	48144.142	9.606	-3.117	1.00	0.00	H
ATOM	675	3HG1	VAL A	48145.889	9.587	-2.872	1.00	0.00	H
ATOM	676	1HG2	VAL A	48144.651	10.515	-6.470	1.00	0.00	H
ATOM	677	2HG2	VAL A	48145.580	11.314	-5.202	1.00	0.00	H
ATOM	678	3HG2	VAL A	48143.903	10.857	-4.910	1.00	0.00	H
ATOM	679	N	LEU A	49148.309	7.339	-4.362	1.00	0.00	N
ATOM	680	CA	LEU A	49148.777	6.005	-4.005	1.00	0.00	C
ATOM	681	C	LEU A	49148.742	5.809	-2.496	1.00	0.00	C
ATOM	682	O	LEU A	49149.455	6.486	-1.756	1.00	0.00	O
ATOM	683	CB	LEU A	49150.197	5.781	-4.528	1.00	0.00	C
ATOM	684	CG	LEU A	49150.343	5.837	-6.050	1.00	0.00	C
ATOM	685	CD1	LEU A	49151.745	6.281	-6.435	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.022	4.483	-6.664	1.00	0.00	C
ATOM	687	H	LEU A	49148.888	8.110	-4.186	1.00	0.00	H
ATOM	688	HA	LEU A	49148.115	5.287	-4.466	1.00	0.00	H
ATOM	689	1HB	LEU A	49150.840	6.535	-4.097	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.532	4.812	-4.192	1.00	0.00	H
ATOM	691	HG	LEU A	49149.643	6.559	-6.446	1.00	0.00	H
ATOM	692	1HD1	LEU A	49151.964	7.230	-5.968	1.00	0.00	H
ATOM	693	2HD1	LEU A	49151.808	6.384	-7.507	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.461	5.543	-6.102	1.00	0.00	H

ATOM	695	1HD2	LEU A	49149.950	4.582	-7.737	1.00	0.00	H
ATOM	696	2HD2	LEU A	49149.083	4.122	-6.272	1.00	0.00	H
ATOM	697	3HD2	LEU A	49150.807	3.782	-6.420	1.00	0.00	H
ATOM	698	N	ALA A	50147.908	4.880	-2.044	1.00	0.00	N
ATOM	699	CA	ALA A	50147.783	4.602	-0.621	1.00	0.00	C
ATOM	700	C	ALA A	50148.733	3.488	-0.195	1.00	0.00	C
ATOM	701	O	ALA A	50148.596	2.343	-0.625	1.00	0.00	O
ATOM	702	CB	ALA A	50146.347	4.234	-0.280	1.00	0.00	C
ATOM	703	H	ALA A	50147.363	4.374	-2.682	1.00	0.00	H
ATOM	704	HA	ALA A	50148.036	5.505	-0.086	1.00	0.00	H
ATOM	705	1HB	ALA A	50146.227	3.162	-0.329	1.00	0.00	H
ATOM	706	2HB	ALA A	50145.677	4.704	-0.985	1.00	0.00	H
ATOM	707	3HB	ALA A	50146.115	4.577	0.718	1.00	0.00	H
ATOM	708	N	GLY A	51149.697	3.832	0.653	1.00	0.00	N
ATOM	709	CA	GLY A	51150.656	2.850	1.123	1.00	0.00	C
ATOM	710	C	GLY A	51150.023	1.805	2.019	1.00	0.00	C
ATOM	711	O	GLY A	51149.665	2.092	3.162	1.00	0.00	O
ATOM	712	H	GLY A	51149.757	4.759	0.962	1.00	0.00	H
ATOM	713	1HA	GLY A	51151.098	2.357	0.270	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.434	3.357	1.674	1.00	0.00	H
ATOM	715	N	LEU A	52149.882	0.589	1.501	1.00	0.00	N
ATOM	716	CA	LEU A	52149.286	-0.502	2.264	1.00	0.00	C
ATOM	717	C	LEU A	52150.362	-1.350	2.933	1.00	0.00	C
ATOM	718	O	LEU A	52151.348	-1.734	2.303	1.00	0.00	O
ATOM	719	CB	LEU A	52148.423	-1.376	1.353	1.00	0.00	C
ATOM	720	CG	LEU A	52147.132	-0.721	0.860	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.434	-1.615	-0.154	1.00	0.00	C
ATOM	722	CD2	LEU A	52146.209	-0.418	2.031	1.00	0.00	C
ATOM	723	H	LEU A	52150.186	0.422	0.585	1.00	0.00	H
ATOM	724	HA	LEU A	52148.660	-0.067	3.029	1.00	0.00	H
ATOM	725	1HB	LEU A	52149.014	-1.654	0.492	1.00	0.00	H

ATOM	726	2HB	LEU A	52148.162	-2.274	1.893	1.00	0.00	H
ATOM	727	HG	LEU A	52147.372	0.212	0.373	1.00	0.00	H
ATOM	728	1HD1	LEU A	52147.160	-2.260	-0.625	1.00	0.00	H
ATOM	729	2HD1	LEU A	52145.957	-1.002	-0.905	1.00	0.00	H
ATOM	730	3HD1	LEU A	52145.689	-2.215	0.348	1.00	0.00	H
ATOM	731	1HD2	LEU A	52146.708	0.245	2.721	1.00	0.00	H
ATOM	732	2HD2	LEU A	52145.955	-1.339	2.536	1.00	0.00	H
ATOM	733	3HD2	LEU A	52145.308	0.053	1.666	1.00	0.00	H
ATOM	734	N	GLU A	53150.166	-1.641	4.216	1.00	0.00	N
ATOM	735	CA	GLU A	53151.119	-2.445	4.972	1.00	0.00	C
ATOM	736	C	GLU A	53150.624	-3.880	5.117	1.00	0.00	C
ATOM	737	O	GLU A	53149.715	-4.158	5.899	1.00	0.00	O
ATOM	738	CB	GLU A	53151.353	-1.830	6.353	1.00	0.00	C
ATOM	739	CG	GLU A	53152.363	-2.593	7.195	1.00	0.00	C
ATOM	740	CD	GLU A	53151.997	-2.614	8.666	1.00	0.00	C
ATOM	741	OE1	GLU A	53152.380	-3.580	9.360	1.00	0.00	O
ATOM	742	OE2	GLU A	53151.327	-1.665	9.126	1.00	0.00	O
ATOM	743	H	GLU A	53149.362	-1.306	4.663	1.00	0.00	H
ATOM	744	HA	GLU A	53152.053	-2.451	4.428	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.710	-0.819	6.229	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.414	-1.808	6.887	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.415	-3.610	6.838	1.00	0.00	H
ATOM	748	2HG	GLU A	53153.330	-2.124	7.086	1.00	0.00	H
ATOM	749	N	LEU A	54151.229	-4.789	4.359	1.00	0.00	N
ATOM	750	CA	LEU A	54150.850	-6.196	4.403	1.00	0.00	C
ATOM	751	C	LEU A	54151.179	-6.805	5.763	1.00	0.00	C
ATOM	752	O	LEU A	54152.268	-6.599	6.300	1.00	0.00	O
ATOM	753	CB	LEU A	54151.564	-6.973	3.296	1.00	0.00	C
ATOM	754	CG	LEU A	54151.397	-6.396	1.889	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.493	-6.907	0.968	1.00	0.00	C
ATOM	756	CD2	LEU A	54150.025	-6.742	1.331	1.00	0.00	C

ATOM	757	H	LEU A	54151.948	-4.506	3.755	1.00	0.00	H
ATOM	758	HA	LEU A	54149.784	-6.257	4.244	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.618	-7.003	3.529	1.00	0.00	H
ATOM	760	2HB	LEU A	54151.183	-7.984	3.293	1.00	0.00	H
ATOM	761	HG	LEU A	54151.478	-5.319	1.938	1.00	0.00	H
ATOM	762	1HD1	LEU A	54153.458	-6.635	1.372	1.00	0.00	H
ATOM	763	2HD1	LEU A	54152.376	-6.467	-0.011	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.426	-7.982	0.891	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.885	-7.812	1.357	1.00	0.00	H
ATOM	766	2HD2	LEU A	54149.953	-6.394	0.312	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.262	-6.266	1.929	1.00	0.00	H
ATOM	768	N	GLU A	55150.231	-7.556	6.314	1.00	0.00	N
ATOM	769	CA	GLU A	55150.420	-8.196	7.610	1.00	0.00	C
ATOM	770	C	GLU A	55151.540	-9.230	7.551	1.00	0.00	C
ATOM	771	O	GLU A	55152.232	-9.466	8.542	1.00	0.00	O
ATOM	772	CB	GLU A	55149.120	-8.861	8.068	1.00	0.00	C
ATOM	773	CG	GLU A	55148.144	-7.900	8.725	1.00	0.00	C
ATOM	774	CD	GLU A	55148.143	-8.013	10.237	1.00	0.00	C
ATOM	775	OE1	GLU A	55149.238	-7.979	10.837	1.00	0.00	O
ATOM	776	OE2	GLU A	55147.046	-8.137	10.823	1.00	0.00	O
ATOM	777	H	GLU A	55149.385	-7.684	5.837	1.00	0.00	H
ATOM	778	HA	GLU A	55150.690	-7.429	8.321	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.635	-9.303	7.210	1.00	0.00	H
ATOM	780	2HB	GLU A	55149.358	-9.639	8.778	1.00	0.00	H
ATOM	781	1HG	GLU A	55148.415	-6.890	8.457	1.00	0.00	H
ATOM	782	2HG	GLU A	55147.148	-8.113	8.362	1.00	0.00	H
ATOM	783	N	ASP A	56151.713	-9.843	6.385	1.00	0.00	N
ATOM	784	CA	ASP A	56152.748	-10.852	6.199	1.00	0.00	C
ATOM	785	C	ASP A	56153.972	-10.256	5.509	1.00	0.00	C
ATOM	786	O	ASP A	56153.857	-9.318	4.722	1.00	0.00	O
ATOM	787	CB	ASP A	56152.207	-12.024	5.379	1.00	0.00	C

ATOM	788	CG	ASP A	56152.759	-13.358	5.842	1.00	0.00	C
ATOM	789	OD1	ASP A	56152.112	-14.007	6.689	1.00	0.00	O
ATOM	790	OD2	ASP A	56153.839	-13.754	5.355	1.00	0.00	O
ATOM	791	H	ASP A	56151.130	-9.612	5.632	1.00	0.00	H
ATOM	792	HA	ASP A	56153.040	-11.212	7.174	1.00	0.00	H
ATOM	793	1HB	ASP A	56151.131	-12.052	5.468	1.00	0.00	H
ATOM	794	2HB	ASP A	56152.474	-11.884	4.341	1.00	0.00	H
ATOM	795	N	GLU A	57155.142	-10.810	5.811	1.00	0.00	N
ATOM	796	CA	GLU A	57156.387	-10.334	5.219	1.00	0.00	C
ATOM	797	C	GLU A	57156.650	-11.019	3.882	1.00	0.00	C
ATOM	798	O	GLU A	57156.986	-12.203	3.836	1.00	0.00	O
ATOM	799	CB	GLU A	57157.558	-10.584	6.172	1.00	0.00	C
ATOM	800	CG	GLU A	57157.490	-9.760	7.448	1.00	0.00	C
ATOM	801	CD	GLU A	57158.429	-10.272	8.522	1.00	0.00	C
ATOM	802	OE1	GLU A	57159.608	-10.536	8.205	1.00	0.00	O
ATOM	803	OE2	GLU A	57157.985	-10.409	9.682	1.00	0.00	O
ATOM	804	H	GLU A	57155.169	-11.556	6.445	1.00	0.00	H
ATOM	805	HA	GLU A	57156.291	-9.272	5.053	1.00	0.00	H
ATOM	806	1HB	GLU A	57157.567	-11.629	6.445	1.00	0.00	H
ATOM	807	2HB	GLU A	57158.480	-10.345	5.663	1.00	0.00	H
ATOM	808	1HG	GLU A	57157.756	-8.740	7.216	1.00	0.00	H
ATOM	809	2HG	GLU A	57156.480	-9.791	7.828	1.00	0.00	H
ATOM	810	N	CYS A	58156.495	-10.269	2.797	1.00	0.00	N
ATOM	811	CA	CYS A	58156.716	-10.804	1.459	1.00	0.00	C
ATOM	812	C	CYS A	58157.997	-10.242	0.851	1.00	0.00	C
ATOM	813	O	CYS A	58158.317	-9.067	1.030	1.00	0.00	O
ATOM	814	CB	CYS A	58155.524	-10.482	0.554	1.00	0.00	C
ATOM	815	SG	CYS A	58154.176	-11.683	0.653	1.00	0.00	S
ATOM	816	H	CYS A	58156.226	-9.331	2.898	1.00	0.00	H
ATOM	817	HA	CYS A	58156.812	-11.877	1.542	1.00	0.00	H
ATOM	818	1HB	CYS A	58155.125	-9.517	0.830	1.00	0.00	H

ATOM	819	2HB	CYS A	58155.861	-10.447	-0.472	1.00	0.00	H
ATOM	820	HG	CYS A	58154.554	-12.533	0.888	1.00	0.00	H
ATOM	821	N	ALAA	59158.726	-11.089	0.133	1.00	0.00	N
ATOM	822	CA	ALAA	59159.972	-10.677	-0.502	1.00	0.00	C
ATOM	823	C	ALAA	59159.708	-9.725	-1.664	1.00	0.00	C
ATOM	824	O	ALAA	59159.129	-10.113	-2.678	1.00	0.00	O
ATOM	825	CB	ALAA	59160.747	-11.895	-0.981	1.00	0.00	C
ATOM	826	H	ALAA	59158.418	-12.014	0.026	1.00	0.00	H
ATOM	827	HA	ALAA	59160.570	-10.168	0.239	1.00	0.00	H
ATOM	828	1HB	ALA A	59161.352	-11.625	-1.834	1.00	0.00	H
ATOM	829	2HB	ALA A	59160.054	-12.674	-1.265	1.00	0.00	H
ATOM	830	3HB	ALA A	59161.385	-12.252	-0.186	1.00	0.00	H
ATOM	831	N	GLY A	60160.136	-8.476	-1.508	1.00	0.00	N
ATOM	832	CA	GLY A	60159.937	-7.489	-2.551	1.00	0.00	C
ATOM	833	C	GLY A	60159.402	-6.175	-2.012	1.00	0.00	C
ATOM	834	O	GLY A	60159.649	-5.115	-2.587	1.00	0.00	O
ATOM	835	H	GLY A	60160.591	-8.225	-0.677	1.00	0.00	H
ATOM	836	1HA	GLY A	60160.880	-7.305	-3.044	1.00	0.00	H
ATOM	837	2HA	GLY A	60159.236	-7.880	-3.274	1.00	0.00	H
ATOM	838	N	CYS A	61158.669	-6.247	-0.907	1.00	0.00	N
ATOM	839	CA	CYS A	61158.098	-5.055	-0.290	1.00	0.00	C
ATOM	840	C	CYS A	61159.175	-4.242	0.422	1.00	0.00	C
ATOM	841	O	CYS A	61160.259	-4.749	0.712	1.00	0.00	O
ATOM	842	CB	CYS A	61156.999	-5.444	0.700	1.00	0.00	C
ATOM	843	SG	CYS A	61155.806	-6.635	0.046	1.00	0.00	S
ATOM	844	H	CYS A	61158.508	-7.121	-0.495	1.00	0.00	H
ATOM	845	HA	CYS A	61157.667	-4.450	-1.074	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.452	-5.882	1.576	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.453	-4.556	0.988	1.00	0.00	H
ATOM	848	HG	CYS A	61156.257	-7.181	-0.602	1.00	0.00	H
ATOM	849	N	THR A	62158.869	-2.979	0.700	1.00	0.00	N

ATOM	850	CA	THR A	62159.811	-2.096	1.378	1.00	0.00	C
ATOM	851	C	THR A	62159.450	-1.944	2.852	1.00	0.00	C
ATOM	852	O	THR A	62158.508	-2.571	3.338	1.00	0.00	O
ATOM	853	CB	THR A	62159.834	-0.725	0.702	1.00	0.00	C
ATOM	854	OG1	THR A	62158.569	-0.422	0.140	1.00	0.00	O
ATOM	855	CG2	THR A	62160.865	-0.617	-0.400	1.00	0.00	C
ATOM	856	H	THR A	62157.989	-2.632	0.443	1.00	0.00	H
ATOM	857	HA	THR A	62160.793	-2.540	1.305	1.00	0.00	H
ATOM	858	HB	THR A	62160.063	0.027	1.444	1.00	0.00	H
ATOM	859	HG1	THR A	62158.577	0.476	-0.200	1.00	0.00	H
ATOM	860	1HG2	THR A	62161.107	0.422	-0.567	1.00	0.00	H
ATOM	861	2HG2	THR A	62160.466	-1.044	-1.309	1.00	0.00	H
ATOM	862	3HG2	THR A	62161.757	-1.153	-0.112	1.00	0.00	H
ATOM	863	N	ASP A	63160.204	-1.108	3.557	1.00	0.00	N
ATOM	864	CA	ASP A	63159.963	-0.873	4.977	1.00	0.00	C
ATOM	865	C	ASP A	63159.263	0.463	5.197	1.00	0.00	C
ATOM	866	O	ASP A	63159.501	1.144	6.194	1.00	0.00	O
ATOM	867	CB	ASP A	63161.283	-0.905	5.752	1.00	0.00	C
ATOM	868	CG	ASP A	63162.354	-0.050	5.104	1.00	0.00	C
ATOM	869	OD1	ASP A	63163.372	-0.615	4.652	1.00	0.00	O
ATOM	870	OD2	ASP A	63162.175	1.185	5.048	1.00	0.00	O
ATOM	871	H	ASP A	63160.940	-0.637	3.114	1.00	0.00	H
ATOM	872	HA	ASP A	63159.324	-1.665	5.339	1.00	0.00	H
ATOM	873	1HB	ASP A	63161.114	-0.538	6.753	1.00	0.00	H
ATOM	874	2HB	ASP A	63161.640	-1.922	5.800	1.00	0.00	H
ATOM	875	N	GLY A	64158.398	0.833	4.258	1.00	0.00	N
ATOM	876	CA	GLY A	64157.676	2.087	4.367	1.00	0.00	C
ATOM	877	C	GLY A	64158.318	3.199	3.562	1.00	0.00	C
ATOM	878	O	GLY A	64158.413	4.336	4.025	1.00	0.00	O
ATOM	879	H	GLY A	64158.249	0.250	3.485	1.00	0.00	H
ATOM	880	1HA	GLY A	64156.666	1.940	4.016	1.00	0.00	H

ATOM	881	2HA	GLY A	64157.644	2.382	5.406	1.00	0.00	H
ATOM	882	N	THR A	65158.763	2.871	2.353	1.00	0.00	N
ATOM	883	CA	THR A	65159.400	3.850	1.481	1.00	0.00	C
ATOM	884	C	THR A	65159.035	3.600	0.022	1.00	0.00	C
ATOM	885	O	THR A	65159.312	2.531	-0.524	1.00	0.00	O
ATOM	886	CB	THR A	65160.919	3.805	1.652	1.00	0.00	C
ATOM	887	OG1	THR A	65161.395	2.473	1.559	1.00	0.00	O
ATOM	888	CG2	THR A	65161.390	4.368	2.976	1.00	0.00	C
ATOM	889	H	THR A	65158.659	1.948	2.040	1.00	0.00	H
ATOM	890	HA	THR A	65159.044	4.829	1.766	1.00	0.00	H
ATOM	891	HB	THR A	65161.377	4.385	0.865	1.00	0.00	H
ATOM	892	HG1	THR A	65161.050	2.065	0.762	1.00	0.00	H
ATOM	893	1HG2	THR A	65160.959	5.348	3.123	1.00	0.00	H
ATOM	894	2HG2	THR A	65162.466	4.445	2.972	1.00	0.00	H
ATOM	895	3HG2	THR A	65161.078	3.714	3.777	1.00	0.00	H
ATOM	896	N	PHE A	66158.411	4.591	-0.606	1.00	0.00	N
ATOM	897	CA	PHE A	66158.008	4.479	-2.003	1.00	0.00	C
ATOM	898	C	PHE A	66159.094	5.022	-2.927	1.00	0.00	C
ATOM	899	O	PHE A	66159.201	6.230	-3.130	1.00	0.00	O
ATOM	900	CB	PHE A	66156.697	5.230	-2.241	1.00	0.00	C
ATOM	901	CG	PHE A	66156.012	4.848	-3.522	1.00	0.00	C
ATOM	902	CD1	PHE A	66155.529	5.822	-4.381	1.00	0.00	C
ATOM	903	CD2	PHE A	66155.849	3.516	-3.865	1.00	0.00	C
ATOM	904	CE1	PHE A	66154.899	5.474	-5.560	1.00	0.00	C
ATOM	905	CE2	PHE A	66155.218	3.161	-5.042	1.00	0.00	C
ATOM	906	CZ	PHE A	66154.742	4.141	-5.892	1.00	0.00	C
ATOM	907	H	PHE A	66158.218	5.419	-0.118	1.00	0.00	H
ATOM	908	HA	PHE A	66157.857	3.432	-2.220	1.00	0.00	H
ATOM	909	1HB	PHE A	66156.019	5.023	-1.427	1.00	0.00	H
ATOM	910	2HB	PHE A	66156.900	6.290	-2.274	1.00	0.00	H
ATOM	911	HD1	PHE A	66155.652	6.864	-4.124	1.00	0.00	H

ATOM	912	HD2 PHE A	66156.220	2.748	-3.202	1.00	0.00	H
ATOM	913	HE1 PHE A	66154.528	6.242	-6.223	1.00	0.00	H
ATOM	914	HE2 PHE A	66155.098	2.119	-5.299	1.00	0.00	H
ATOM	915	HZ PHE A	66154.250	3.867	-6.812	1.00	0.00	H
ATOM	916	N ARG A	67159.896	4.119	-3.483	1.00	0.00	N
ATOM	917	CA ARG A	67160.973	4.509	-4.386	1.00	0.00	C
ATOM	918	C ARG A	67161.960	5.438	-3.686	1.00	0.00	C
ATOM	919	O ARG A	67162.592	6.281	-4.322	1.00	0.00	O
ATOM	920	CB ARG A	67160.404	5.194	-5.629	1.00	0.00	C
ATOM	921	CG ARG A	67159.247	4.438	-6.263	1.00	0.00	C
ATOM	922	CD ARG A	67158.335	5.371	-7.047	1.00	0.00	C
ATOM	923	NE ARG A	67158.608	5.327	-8.481	1.00	0.00	N
ATOM	924	CZ ARG A	67158.258	4.314	-9.271	1.00	0.00	C
ATOM	925	NH1 ARG A	67157.622	3.261	-8.771	1.00	0.00	N
ATOM	926	NH2 ARG A	67158.544	4.354	-10.566	1.00	0.00	N
ATOM	927	H ARG A	67159.759	3.170	-3.282	1.00	0.00	H
ATOM	928	HA ARG A	67161.493	3.612	-4.686	1.00	0.00	H
ATOM	929	1HB ARG A	67160.055	6.179	-5.355	1.00	0.00	H
ATOM	930	2HB ARG A	67161.188	5.290	-6.365	1.00	0.00	H
ATOM	931	1HG ARG A	67159.642	3.691	-6.935	1.00	0.00	H
ATOM	932	2HG ARG A	67158.673	3.959	-5.484	1.00	0.00	H
ATOM	933	1HD ARG A	67157.310	5.077	-6.876	1.00	0.00	H
ATOM	934	2HD ARG A	67158.483	6.380	-6.691	1.00	0.00	H
ATOM	935	HE ARG A	67159.077	6.091	-8.876	1.00	0.00	H
ATOM	936	1HH1 ARG A	67157.403	3.225	-7.795	1.00	0.00	H
ATOM	937	2HH1 ARG A	67157.361	2.504	-9.370	1.00	0.00	H
ATOM	938	1HH2 ARG A	67159.022	5.145	-10.947	1.00	0.00	H
ATOM	939	2HH2 ARG A	67158.282	3.594	-11.159	1.00	0.00	H
ATOM	940	N GLY A	68162.086	5.279	-2.372	1.00	0.00	N
ATOM	941	CA GLY A	68162.998	6.111	-1.610	1.00	0.00	C
ATOM	942	C GLY A	68162.279	7.180	-0.808	1.00	0.00	C

ATOM	943	O	GLY A	68162.795	7.658	0.202	1.00	0.00	O
ATOM	944	H	GLY A	68161.558	4.591	-1.917	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.558	5.485	-0.931	1.00	0.00	H
ATOM	946	2HA	GLY A	68163.686	6.590	-2.291	1.00	0.00	H
ATOM	947	N	THR A	69161.086	7.556	-1.260	1.00	0.00	N
ATOM	948	CA	THR A	69160.299	8.575	-0.576	1.00	0.00	C
ATOM	949	C	THR A	69159.624	8.002	0.666	1.00	0.00	C
ATOM	950	O	THR A	69158.538	7.428	0.585	1.00	0.00	O
ATOM	951	CB	THR A	69159.245	9.152	-1.523	1.00	0.00	C
ATOM	952	OG1	THR A	69159.760	9.271	-2.836	1.00	0.00	O
ATOM	953	CG2	THR A	69158.746	10.518	-1.101	1.00	0.00	C
ATOM	954	H	THR A	69160.728	7.138	-2.070	1.00	0.00	H
ATOM	955	HA	THR A	69160.969	9.365	-0.275	1.00	0.00	H
ATOM	956	HB	THR A	69158.396	8.484	-1.549	1.00	0.00	H
ATOM	957	HG1	THR A	69159.603	8.454	-3.317	1.00	0.00	H
ATOM	958	1HG2	THR A	69157.684	10.586	-1.285	1.00	0.00	H
ATOM	959	2HG2	THR A	69159.259	11.280	-1.670	1.00	0.00	H
ATOM	960	3HG2	THR A	69158.939	10.663	-0.048	1.00	0.00	H
ATOM	961	N	ARG A	70160.275	8.161	1.813	1.00	0.00	N
ATOM	962	CA	ARG A	70159.738	7.659	3.073	1.00	0.00	C
ATOM	963	C	ARG A	70158.513	8.463	3.499	1.00	0.00	C
ATOM	964	O	ARG A	70158.554	9.692	3.554	1.00	0.00	O
ATOM	965	CB	ARG A	70160.806	7.716	4.166	1.00	0.00	C
ATOM	966	CG	ARG A	70160.332	7.181	5.508	1.00	0.00	C
ATOM	967	CD	ARG A	70160.920	7.975	6.663	1.00	0.00	C
ATOM	968	NE	ARG A	70162.233	7.472	7.062	1.00	0.00	N
ATOM	969	CZ	ARG A	70163.084	8.150	7.828	1.00	0.00	C
ATOM	970	NH1	ARG A	70162.766	9.356	8.281	1.00	0.00	N
ATOM	971	NH2	ARG A	70164.258	7.619	8.143	1.00	0.00	N
ATOM	972	H	ARG A	70161.137	8.627	1.813	1.00	0.00	H
ATOM	973	HA	ARG A	70159.444	6.631	2.921	1.00	0.00	H

ATOM	974	1HB	ARG A	70161.659	7.134	3.851	1.00	0.00	H
ATOM	975	2HB	ARG A	70161.112	8.743	4.300	1.00	0.00	H
ATOM	976	1HG	ARG A	70159.255	7.245	5.551	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.636	6.149	5.600	1.00	0.00	H
ATOM	978	1HD	ARG A	70161.017	9.007	6.361	1.00	0.00	H
ATOM	979	2HD	ARG A	70160.248	7.909	7.506	1.00	0.00	H
ATOM	980	HE	ARG A	70162.494	6.584	6.741	1.00	0.00	H
ATOM	981	1HH1	ARG A	70161.882	9.762	8.048	1.00	0.00	H
ATOM	982	2HH1	ARG A	70163.409	9.859	8.857	1.00	0.00	H
ATOM	983	1HH2	ARG A	70164.503	6.711	7.805	1.00	0.00	H
ATOM	984	2HH2	ARG A	70164.898	8.127	8.720	1.00	0.00	H
ATOM	985	N	TYR A	71157.426	7.760	3.799	1.00	0.00	N
ATOM	986	CA	TYR A	71156.189	8.408	4.220	1.00	0.00	C
ATOM	987	C	TYR A	71155.841	8.032	5.657	1.00	0.00	C
ATOM	988	O	TYR A	71155.425	8.880	6.447	1.00	0.00	O
ATOM	989	CB	TYR A	71155.042	8.019	3.287	1.00	0.00	C
ATOM	990	CG	TYR A	71155.198	8.551	1.879	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.353	7.686	0.804	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.192	9.917	1.628	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.496	8.168	-0.485	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.334	10.406	0.343	1.00	0.00	C
ATOM	995	CZ	TYR A	71155.486	9.528	-0.709	1.00	0.00	C
ATOM	996	OH	TYR A	71155.628	10.012	-1.989	1.00	0.00	O
ATOM	997	H	TYR A	71157.456	6.783	3.735	1.00	0.00	H
ATOM	998	HA	TYR A	71156.339	9.476	4.167	1.00	0.00	H
ATOM	999	1HB	TYR A	71154.983	6.943	3.229	1.00	0.00	H
ATOM	1000	2HB	TYR A	71154.116	8.405	3.687	1.00	0.00	H
ATOM	1001	HD1	TYR A	71155.360	6.621	0.982	1.00	0.00	H
ATOM	1002	HD2	TYR A	71155.073	10.603	2.454	1.00	0.00	H
ATOM	1003	HE1	TYR A	71155.615	7.480	-1.308	1.00	0.00	H
ATOM	1004	HE2	TYR A	71155.326	11.472	0.168	1.00	0.00	H

ATOM	1005	HH	TYR A	71154.788	10.360	-2.295	1.00	0.00	H
ATOM	1006	N	PHE A	72156.013	6.757	5.987	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.716	6.268	7.329	1.00	0.00	C
ATOM	1008	C	PHE A	72156.781	5.282	7.797	1.00	0.00	C
ATOM	1009	O	PHE A	72157.740	5.001	7.079	1.00	0.00	O
ATOM	1010	CB	PHE A	72154.339	5.603	7.358	1.00	0.00	C
ATOM	1011	CG	PHE A	72154.122	4.623	6.241	1.00	0.00	C
ATOM	1012	CD1	PHE A	72154.270	3.261	6.457	1.00	0.00	C
ATOM	1013	CD2	PHE A	72153.771	5.062	4.974	1.00	0.00	C
ATOM	1014	CE1	PHE A	72154.071	2.357	5.431	1.00	0.00	C
ATOM	1015	CE2	PHE A	72153.570	4.163	3.944	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.720	2.809	4.173	1.00	0.00	C
ATOM	1017	H	PHE A	72156.346	6.129	5.313	1.00	0.00	H
ATOM	1018	HA	PHE A	72155.710	7.117	7.997	1.00	0.00	H
ATOM	1019	1HB	PHE A	72154.223	5.072	8.291	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.578	6.365	7.285	1.00	0.00	H
ATOM	1021	HD1	PHE A	72154.543	2.908	7.440	1.00	0.00	H
ATOM	1022	HD2	PHE A	72153.653	6.120	4.795	1.00	0.00	H
ATOM	1023	HE1	PHE A	72154.190	1.300	5.612	1.00	0.00	H
ATOM	1024	HE2	PHE A	72153.297	4.519	2.962	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.564	2.104	3.370	1.00	0.00	H
ATOM	1026	N	THR A	73156.605	4.760	9.007	1.00	0.00	N
ATOM	1027	CA	THR A	73157.551	3.805	9.573	1.00	0.00	C
ATOM	1028	C	THR A	73156.871	2.469	9.856	1.00	0.00	C
ATOM	1029	O	THR A	73156.113	2.338	10.817	1.00	0.00	O
ATOM	1030	CB	THR A	73158.162	4.361	10.860	1.00	0.00	C
ATOM	1031	OG1	THR A	73157.244	5.211	11.525	1.00	0.00	O
ATOM	1032	CG2	THR A	73159.432	5.152	10.626	1.00	0.00	C
ATOM	1033	H	THR A	73155.821	5.023	9.533	1.00	0.00	H
ATOM	1034	HA	THR A	73158.337	3.648	8.850	1.00	0.00	H
ATOM	1035	HB	THR A	73158.401	3.539	11.518	1.00	0.00	H

ATOM 1036 HG1 THR A 73156.707 4.692 12.128 1.00 0.00 H
 ATOM 1037 1HG2 THR A 73159.457 5.998 11.296 1.00 0.00 H
 ATOM 1038 2HG2 THR A 73159.456 5.500 9.604 1.00 0.00 H
 ATOM 1039 3HG2 THR A 73160.288 4.521 10.812 1.00 0.00 H
 ATOM 1040 N CYS A 74157.149 1.479 9.013 1.00 0.00 N
 ATOM 1041 CA CYS A 74156.565 0.153 9.173 1.00 0.00 C
 ATOM 1042 C CYS A 74157.648 -0.922 9.171 1.00 0.00 C
 ATOM 1043 O CYS A 74158.817 -0.639 8.913 1.00 0.00 O
 ATOM 1044 CB CYS A 74155.556 -0.121 8.056 1.00 0.00 C
 ATOM 1045 SG CYS A 74153.872 0.415 8.436 1.00 0.00 S
 ATOM 1046 H CYS A 74157.762 1.645 8.266 1.00 0.00 H
 ATOM 1047 HA CYS A 74156.052 0.128 10.122 1.00 0.00 H
 ATOM 1048 1HB CYS A 74155.871 0.396 7.162 1.00 0.00 H
 ATOM 1049 2HB CYS A 74155.527 -1.183 7.860 1.00 0.00 H
 ATOM 1050 HG CYS A 74153.370 -0.356 8.709 1.00 0.00 H
 ATOM 1051 N ALA A 75157.249 -2.157 9.460 1.00 0.00 N
 ATOM 1052 CA ALA A 75158.185 -3.274 9.491 1.00 0.00 C
 ATOM 1053 C ALA A 75158.860 -3.461 8.137 1.00 0.00 C
 ATOM 1054 O ALA A 75158.563 -2.747 7.180 1.00 0.00 O
 ATOM 1055 CB ALA A 75157.469 -4.549 9.908 1.00 0.00 C
 ATOM 1056 H ALA A 75156.303 -2.320 9.657 1.00 0.00 H
 ATOM 1057 HA ALA A 75158.940 -3.054 10.232 1.00 0.00 H
 ATOM 1058 1HB ALA A 75156.425 -4.479 9.643 1.00 0.00 H
 ATOM 1059 2HB ALA A 75157.562 -4.681 10.976 1.00 0.00 H
 ATOM 1060 3HB ALA A 75157.913 -5.393 9.401 1.00 0.00 H
 ATOM 1061 N LEU A 76159.770 -4.427 8.064 1.00 0.00 N
 ATOM 1062 CA LEU A 76160.488 -4.709 6.827 1.00 0.00 C
 ATOM 1063 C LEU A 76159.705 -5.684 5.953 1.00 0.00 C
 ATOM 1064 O LEU A 76159.141 -6.660 6.447 1.00 0.00 O
 ATOM 1065 CB LEU A 76161.873 -5.281 7.135 1.00 0.00 C
 ATOM 1066 CG LEU A 76162.966 -4.238 7.375 1.00 0.00 C

ATOM	1067	CD1	LEU A	76164.095	-4.830	8.205	1.00	0.00	C
ATOM	1068	CD2	LEU A	76163.495	-3.708	6.051	1.00	0.00	C
ATOM	1069	H	LEU A	76159.964	-4.963	8.862	1.00	0.00	H
ATOM	1070	HA	LEU A	76160.604	-3.778	6.292	1.00	0.00	H
ATOM	1071	1HB	LEU A	76161.795	-5.901	8.016	1.00	0.00	H
ATOM	1072	2HB	LEU A	76162.176	-5.901	6.305	1.00	0.00	H
ATOM	1073	HG	LEU A	76162.547	-3.408	7.926	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76164.504	-4.068	8.851	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76164.869	-5.199	7.548	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76163.713	-5.643	8.803	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76163.973	-2.752	6.212	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76162.676	-3.589	5.357	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76164.213	-4.406	5.645	1.00	0.00	H
ATOM	1080	N	LYS A	77159.676	-5.413	4.652	1.00	0.00	N
ATOM	1081	CA	LYS A	77158.962	-6.266	3.709	1.00	0.00	C
ATOM	1082	C	LYS A	77157.473	-6.313	4.036	1.00	0.00	C
ATOM	1083	O	LYS A	77156.840	-7.365	3.949	1.00	0.00	O
ATOM	1084	CB	LYS A	77159.546	-7.681	3.727	1.00	0.00	C
ATOM	1085	CG	LYS A	77161.022	-7.735	3.366	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.222	-7.948	1.874	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.466	-7.232	1.372	1.00	0.00	C
ATOM	1088	NZ	LYS A	77163.176	-8.018	0.325	1.00	0.00	N
ATOM	1089	H	LYS A	77160.145	-4.620	4.319	1.00	0.00	H
ATOM	1090	HA	LYS A	77159.089	-5.848	2.722	1.00	0.00	H
ATOM	1091	1HB	LYS A	77159.425	-8.095	4.717	1.00	0.00	H
ATOM	1092	2HB	LYS A	77159.002	-8.292	3.022	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.487	-6.804	3.653	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.484	-8.552	3.902	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.325	-9.005	1.681	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.360	-7.566	1.347	1.00	0.00	H
ATOM	1097	1HE	LYS A	77162.174	-6.278	0.956	1.00	0.00	H

ATOM	1098	2HE	LYS A	77163.133	-7.070	2.205	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77162.881	-7.702	-0.620	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77162.953	-9.029	0.426	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77164.204	-7.890	0.418	1.00	0.00	H
ATOM	1102	N	LYS A	78156.919	-5.165	4.412	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.503	-5.075	4.751	1.00	0.00	C
ATOM	1104	C	LYS A	78154.937	-3.711	4.366	1.00	0.00	C
ATOM	1105	O	LYS A	78154.084	-3.163	5.064	1.00	0.00	O
ATOM	1106	CB	LYS A	78155.299	-5.322	6.246	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.835	-6.663	6.719	1.00	0.00	C
ATOM	1108	CD	LYS A	78155.588	-6.870	8.205	1.00	0.00	C
ATOM	1109	CE	LYS A	78154.371	-7.748	8.450	1.00	0.00	C
ATOM	1110	NZ	LYS A	78153.592	-7.299	9.636	1.00	0.00	N
ATOM	1111	H	LYS A	78157.475	-4.359	4.462	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.980	-5.838	4.193	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.801	-4.543	6.800	1.00	0.00	H
ATOM	1114	2HB	LYS A	78154.242	-5.284	6.464	1.00	0.00	H
ATOM	1115	1HG	LYS A	78155.342	-7.451	6.169	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.898	-6.702	6.531	1.00	0.00	H
ATOM	1117	1HD	LYS A	78156.454	-7.342	8.641	1.00	0.00	H
ATOM	1118	2HD	LYS A	78155.426	-5.908	8.669	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.736	-7.712	7.578	1.00	0.00	H
ATOM	1120	2HE	LYS A	78154.703	-8.764	8.611	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78154.204	-6.763	10.284	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78153.207	-8.121	10.144	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78152.803	-6.691	9.336	1.00	0.00	H
ATOM	1124	N	ALAA	79155.417	-3.170	3.252	1.00	0.00	N
ATOM	1125	CA	ALAA	79154.959	-1.871	2.774	1.00	0.00	C
ATOM	1126	C	ALAA	79154.768	-1.878	1.261	1.00	0.00	C
ATOM	1127	O	ALAA	79155.729	-1.743	0.504	1.00	0.00	O
ATOM	1128	CB	ALAA	79155.942	-0.784	3.179	1.00	0.00	C

ATOM 1129 H ALAA 79156.096 -3.655 2.738 1.00 0.00 H
 ATOM 1130 HA ALAA 79154.010 -1.659 3.246 1.00 0.00 H
 ATOM 1131 1HB ALAA 79155.400 0.113 3.442 1.00 0.00 H
 ATOM 1132 2HB ALAA 79156.607 -0.573 2.354 1.00 0.00 H
 ATOM 1133 3HB ALAA 79156.519 -1.117 4.028 1.00 0.00 H
 ATOM 1134 N LEUA 80153.522 -2.038 0.829 1.00 0.00 N
 ATOM 1135 CA LEUA 80153.204 -2.063 -0.595 1.00 0.00 C
 ATOM 1136 C LEUA 80152.375 -0.846 -0.989 1.00 0.00 C
 ATOM 1137 O LEUA 80151.319 -0.587 -0.410 1.00 0.00 O
 ATOM 1138 CB LEUA 80152.448 -3.345 -0.947 1.00 0.00 C
 ATOM 1139 CG LEUA 80152.015 -3.461 -2.409 1.00 0.00 C
 ATOM 1140 CD1 LEUA 80153.127 -4.072 -3.247 1.00 0.00 C
 ATOM 1141 CD2 LEUA 80150.742 -4.287 -2.524 1.00 0.00 C
 ATOM 1142 H LEUA 80152.798 -2.140 1.481 1.00 0.00 H
 ATOM 1143 HA LEUA 80154.135 -2.042 -1.143 1.00 0.00 H
 ATOM 1144 1HB LEUA 80153.083 -4.188 -0.712 1.00 0.00 H
 ATOM 1145 2HB LEUA 80151.565 -3.399 -0.328 1.00 0.00 H
 ATOM 1146 HG LEUA 80151.811 -2.473 -2.795 1.00 0.00 H
 ATOM 1147 1HD1 LEUA 80153.127 -3.621 -4.229 1.00 0.00 H
 ATOM 1148 2HD1 LEUA 80152.964 -5.136 -3.340 1.00 0.00 H
 ATOM 1149 3HD1 LEUA 80154.078 -3.894 -2.769 1.00 0.00 H
 ATOM 1150 1HD2 LEUA 80150.387 -4.261 -3.543 1.00 0.00 H
 ATOM 1151 2HD2 LEUA 80149.988 -3.878 -1.868 1.00 0.00 H
 ATOM 1152 3HD2 LEUA 80150.950 -5.308 -2.240 1.00 0.00 H
 ATOM 1153 N PHEA 81152.859 -0.100 -1.976 1.00 0.00 N
 ATOM 1154 CA PHEA 81152.162 1.091 -2.449 1.00 0.00 C
 ATOM 1155 C PHEA 81151.323 0.776 -3.683 1.00 0.00 C
 ATOM 1156 O PHEA 81151.796 0.136 -4.621 1.00 0.00 O
 ATOM 1157 CB PHEA 81153.164 2.201 -2.768 1.00 0.00 C
 ATOM 1158 CG PHEA 81153.781 2.823 -1.548 1.00 0.00 C
 ATOM 1159 CD1 PHEA 81154.882 2.242 -0.940 1.00 0.00 C

ATOM	1160	CD2	PHE A	81153.260	3.988	-1.009	1.00	0.00	C
ATOM	1161	CE1	PHE A	81155.453	2.812	0.182	1.00	0.00	C
ATOM	1162	CE2	PHE A	81153.826	4.563	0.113	1.00	0.00	C
ATOM	1163	CZ	PHE A	81154.924	3.973	0.710	1.00	0.00	C
ATOM	1164	H	PHE A	81153.705	-0.357	-2.399	1.00	0.00	H
ATOM	1165	HA	PHE A	81151.507	1.426	-1.658	1.00	0.00	H
ATOM	1166	1HB	PHE A	81153.961	1.794	-3.372	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.662	2.981	-3.323	1.00	0.00	H
ATOM	1168	HD1	PHE A	81155.297	1.334	-1.352	1.00	0.00	H
ATOM	1169	HD2	PHE A	81152.401	4.449	-1.475	1.00	0.00	H
ATOM	1170	HE1	PHE A	81156.311	2.349	0.646	1.00	0.00	H
ATOM	1171	HE2	PHE A	81153.410	5.471	0.523	1.00	0.00	H
ATOM	1172	HZ	PHE A	81155.368	4.421	1.586	1.00	0.00	H
ATOM	1173	N	VAL A	82150.074	1.230	-3.674	1.00	0.00	N
ATOM	1174	CA	VAL A	82149.168	0.997	-4.793	1.00	0.00	C
ATOM	1175	C	VAL A	82148.207	2.167	-4.975	1.00	0.00	C
ATOM	1176	O	VAL A	82148.090	3.029	-4.105	1.00	0.00	O
ATOM	1177	CB	VAL A	82148.354	-0.295	-4.597	1.00	0.00	C
ATOM	1178	CG1	VAL A	82149.264	-1.512	-4.631	1.00	0.00	C
ATOM	1179	CG2	VAL A	82147.570	-0.241	-3.294	1.00	0.00	C
ATOM	1180	H	VAL A	82149.753	1.734	-2.896	1.00	0.00	H
ATOM	1181	HA	VAL A	82149.764	0.890	-5.687	1.00	0.00	H
ATOM	1182	HB	VAL A	82147.648	-0.379	-5.412	1.00	0.00	H
ATOM	1183	1HG1	VAL A	82150.134	-1.294	-5.233	1.00	0.00	H
ATOM	1184	2HG1	VAL A	82148.732	-2.349	-5.058	1.00	0.00	H
ATOM	1185	3HG1	VAL A	82149.574	-1.758	-3.626	1.00	0.00	H
ATOM	1186	1HG2	VAL A	82147.581	-1.214	-2.825	1.00	0.00	H
ATOM	1187	2HG2	VAL A	82146.551	0.050	-3.498	1.00	0.00	H
ATOM	1188	3HG2	VAL A	82148.025	0.482	-2.631	1.00	0.00	H
ATOM	1189	N	LYS A	83147.522	2.190	-6.114	1.00	0.00	N
ATOM	1190	CA	LYS A	83146.571	3.255	-6.413	1.00	0.00	C

ATOM	1191	C	LYS A	83145.380	3.204	-5.464	1.00	0.00	C
ATOM	1192	O	LYS A	83144.707	2.180	-5.348	1.00	0.00	O
ATOM	1193	CB	LYS A	83146.091	3.145	-7.860	1.00	0.00	C
ATOM	1194	CG	LYS A	83147.213	3.230	-8.882	1.00	0.00	C
ATOM	1195	CD	LYS A	83146.736	2.827	-10.268	1.00	0.00	C
ATOM	1196	CE	LYS A	83147.304	3.741	-11.341	1.00	0.00	C
ATOM	1197	NZ	LYS A	83147.522	3.022	-12.627	1.00	0.00	N
ATOM	1198	H	LYS A	83147.660	1.475	-6.769	1.00	0.00	H
ATOM	1199	HA	LYS A	83147.079	4.199	-6.281	1.00	0.00	H
ATOM	1200	1HB	LYS A	83145.586	2.200	-7.989	1.00	0.00	H
ATOM	1201	2HB	LYS A	83145.393	3.945	-8.058	1.00	0.00	H
ATOM	1202	1HG	LYS A	83147.577	4.246	-8.918	1.00	0.00	H
ATOM	1203	2HG	LYS A	83148.012	2.569	-8.579	1.00	0.00	H
ATOM	1204	1HD	LYS A	83147.055	1.814	-10.467	1.00	0.00	H
ATOM	1205	2HD	LYS A	83145.658	2.878	-10.297	1.00	0.00	H
ATOM	1206	1HE	LYS A	83146.613	4.554	-11.507	1.00	0.00	H
ATOM	1207	2HE	LYS A	83148.247	4.137	-10.995	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83148.420	2.497	-12.595	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83147.557	3.699	-13.414	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83146.746	2.349	-12.796	1.00	0.00	H
ATOM	1211	N	LEU A	84145.125	4.318	-4.788	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.015	4.410	-3.849	1.00	0.00	C
ATOM	1213	C	LEU A	84142.685	4.149	-4.549	1.00	0.00	C
ATOM	1214	O	LEU A	84141.743	3.636	-3.944	1.00	0.00	O
ATOM	1215	CB	LEU A	84143.997	5.791	-3.189	1.00	0.00	C
ATOM	1216	CG	LEU A	84142.811	6.051	-2.258	1.00	0.00	C
ATOM	1217	CD1	LEU A	84142.917	5.194	-1.006	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.737	7.526	-1.891	1.00	0.00	C
ATOM	1219	H	LEU A	84145.698	5.101	-4.926	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.162	3.659	-3.087	1.00	0.00	H
ATOM	1221	1HB	LEU A	84144.908	5.907	-2.620	1.00	0.00	H

ATOM	1222	2HB	LEU A	84143.984	6.537	-3.969	1.00	0.00	H
ATOM	1223	HG	LEU A	84141.896	5.786	-2.767	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84143.435	5.745	-0.236	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84143.465	4.291	-1.234	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84141.927	4.936	-0.662	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84141.795	7.729	-1.404	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84142.815	8.124	-2.787	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84143.549	7.772	-1.222	1.00	0.00	H
ATOM	1230	N	LYS A	85142.616	4.505	-5.827	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.401	4.310	-6.611	1.00	0.00	C
ATOM	1232	C	LYS A	85141.072	2.826	-6.754	1.00	0.00	C
ATOM	1233	O	LYS A	85139.912	2.453	-6.932	1.00	0.00	O
ATOM	1234	CB	LYS A	85141.555	4.944	-7.994	1.00	0.00	C
ATOM	1235	CG	LYS A	85142.656	4.315	-8.833	1.00	0.00	C
ATOM	1236	CD	LYS A	85143.327	5.341	-9.732	1.00	0.00	C
ATOM	1237	CE	LYS A	85142.637	5.432	-11.083	1.00	0.00	C
ATOM	1238	NZ	LYS A	85141.191	5.755	-10.950	1.00	0.00	N
ATOM	1239	H	LYS A	85143.400	4.910	-6.254	1.00	0.00	H
ATOM	1240	HA	LYS A	85140.590	4.797	-6.091	1.00	0.00	H
ATOM	1241	1HB	LYS A	85140.622	4.844	-8.529	1.00	0.00	H
ATOM	1242	2HB	LYS A	85141.779	5.994	-7.874	1.00	0.00	H
ATOM	1243	1HG	LYS A	85143.397	3.888	-8.175	1.00	0.00	H
ATOM	1244	2HG	LYS A	85142.226	3.537	-9.447	1.00	0.00	H
ATOM	1245	1HD	LYS A	85143.284	6.308	-9.252	1.00	0.00	H
ATOM	1246	2HD	LYS A	85144.358	5.055	-9.881	1.00	0.00	H
ATOM	1247	1HE	LYS A	85143.117	6.205	-11.666	1.00	0.00	H
ATOM	1248	2HE	LYS A	85142.741	4.484	-11.590	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85140.781	5.957	-11.884	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85141.065	6.590	-10.342	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85140.683	4.953	-10.526	1.00	0.00	H
ATOM	1252	N	SER A	86142.098	1.984	-6.674	1.00	0.00	N

ATOM	1253	CA	SER A	86141.913	0.542	-6.794	1.00	0.00	C
ATOM	1254	C	SER A	86141.835	-0.115	-5.420	1.00	0.00	C
ATOM	1255	O	SER A	86142.239	-1.265	-5.247	1.00	0.00	O
ATOM	1256	CB	SER A	86143.057	-0.073	-7.602	1.00	0.00	C
ATOM	1257	OG	SER A	86143.348	0.704	-8.751	1.00	0.00	O
ATOM	1258	H	SER A	86143.000	2.340	-6.531	1.00	0.00	H
ATOM	1259	HA	SER A	86140.984	0.370	-7.316	1.00	0.00	H
ATOM	1260	1HB	SER A	86143.942	-0.126	-6.986	1.00	0.00	H
ATOM	1261	2HB	SER A	86142.778	-1.068	-7.916	1.00	0.00	H
ATOM	1262	HG	SER A	86144.296	0.706	-8.905	1.00	0.00	H
ATOM	1263	N	CYS A	87141.311	0.621	-4.445	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.180	0.107	-3.086	1.00	0.00	C
ATOM	1265	C	CYS A	87139.712	0.006	-2.683	1.00	0.00	C
ATOM	1266	O	CYS A	87138.868	0.749	-3.182	1.00	0.00	O
ATOM	1267	CB	CYS A	87141.929	1.008	-2.104	1.00	0.00	C
ATOM	1268	SG	CYS A	87143.720	1.039	-2.349	1.00	0.00	S
ATOM	1269	H	CYS A	87141.005	1.530	-4.642	1.00	0.00	H
ATOM	1270	HA	CYS A	87141.616	-0.880	-3.061	1.00	0.00	H
ATOM	1271	1HB	CYS A	87141.568	2.020	-2.207	1.00	0.00	H
ATOM	1272	2HB	CYS A	87141.741	0.665	-1.096	1.00	0.00	H
ATOM	1273	HG	CYS A	87144.138	0.829	-1.511	1.00	0.00	H
ATOM	1274	N	ARG A	88139.416	-0.921	-1.777	1.00	0.00	N
ATOM	1275	CA	ARG A	88138.050	-1.121	-1.307	1.00	0.00	C
ATOM	1276	C	ARG A	88138.005	-1.203	0.219	1.00	0.00	C
ATOM	1277	O	ARG A	88138.924	-1.729	0.846	1.00	0.00	O
ATOM	1278	CB	ARG A	88137.458	-2.394	-1.918	1.00	0.00	C
ATOM	1279	CG	ARG A	88136.431	-2.125	-3.009	1.00	0.00	C
ATOM	1280	CD	ARG A	88135.076	-2.726	-2.667	1.00	0.00	C
ATOM	1281	NE	ARG A	88134.097	-1.701	-2.312	1.00	0.00	N
ATOM	1282	CZ	ARG A	88133.646	-0.781	-3.162	1.00	0.00	C
ATOM	1283	NH1	ARG A	88134.084	-0.752	-4.414	1.00	0.00	N

ATOM	1284	NH2	ARG A	88132.754	0.114	-2.758	1.00	0.00	N
ATOM	1285	H	ARG A	88140.132	-1.484	-1.416	1.00	0.00	H
ATOM	1286	HA	ARG A	88137.463	-0.273	-1.627	1.00	0.00	H
ATOM	1287	1HB	ARG A	88138.260	-2.978	-2.346	1.00	0.00	H
ATOM	1288	2HB	ARG A	88136.983	-2.969	-1.138	1.00	0.00	H
ATOM	1289	1HG	ARG A	88136.320	-1.057	-3.128	1.00	0.00	H
ATOM	1290	2HG	ARG A	88136.784	-2.557	-3.934	1.00	0.00	H
ATOM	1291	1HD	ARG A	88134.714	-3.274	-3.524	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.195	-3.401	-1.832	1.00	0.00	H
ATOM	1293	HE	ARG A	88133.756	-1.699	-1.393	1.00	0.00	H
ATOM	1294	1HH1	ARG A	88134.757	-1.424	-4.726	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88133.742	-0.058	-5.047	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88132.420	0.097	-1.815	1.00	0.00	H
ATOM	1297	2HH2	ARG A	88132.416	0.806	-3.395	1.00	0.00	H
ATOM	1298	N	PRO A	89136.930	-0.683	0.838	1.00	0.00	N
ATOM	1299	CA	PRO A	89136.774	-0.703	2.296	1.00	0.00	C
ATOM	1300	C	PRO A	89136.931	-2.105	2.875	1.00	0.00	C
ATOM	1301	O	PRO A	89136.144	-3.003	2.574	1.00	0.00	O
ATOM	1302	CB	PRO A	89135.347	-0.195	2.512	1.00	0.00	C
ATOM	1303	CG	PRO A	89135.044	0.615	1.300	1.00	0.00	C
ATOM	1304	CD	PRO A	89135.786	-0.038	0.168	1.00	0.00	C
ATOM	1305	HA	PRO A	89137.475	-0.037	2.777	1.00	0.00	H
ATOM	1306	1HB	PRO A	89134.675	-1.035	2.605	1.00	0.00	H
ATOM	1307	2HB	PRO A	89135.308	0.406	3.408	1.00	0.00	H
ATOM	1308	1HG	PRO A	89133.981	0.605	1.108	1.00	0.00	H
ATOM	1309	2HG	PRO A	89135.391	1.628	1.439	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.160	-0.772	-0.319	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.122	0.703	-0.541	1.00	0.00	H
ATOM	1312	N	ASP A	90137.951	-2.286	3.707	1.00	0.00	N
ATOM	1313	CA	ASP A	90138.210	-3.579	4.329	1.00	0.00	C
ATOM	1314	C	ASP A	90137.750	-3.586	5.783	1.00	0.00	C

ATOM 1315 O ASPA 90138.340 -2.918 6.633 1.00 0.00 O
 ATOM 1316 CB ASPA 90139.699 -3.915 4.251 1.00 0.00 C
 ATOM 1317 CG ASPA 90139.952 -5.409 4.179 1.00 0.00 C
 ATOM 1318 OD1 ASPA 90140.458 -5.974 5.171 1.00 0.00 O
 ATOM 1319 OD2 ASPA 90139.643 -6.013 3.131 1.00 0.00 O
 ATOM 1320 H ASPA 90138.543 -1.532 3.909 1.00 0.00 H
 ATOM 1321 HA ASPA 90137.652 -4.326 3.784 1.00 0.00 H
 ATOM 1322 1HB ASPA 90140.121 -3.455 3.370 1.00 0.00 H
 ATOM 1323 2HB ASPA 90140.195 -3.527 5.128 1.00 0.00 H
 ATOM 1324 N SERA 91136.697 -4.345 6.063 1.00 0.00 N
 ATOM 1325 CA SERA 91136.163 -4.439 7.417 1.00 0.00 C
 ATOM 1326 C SERA 91136.405 -5.826 8.004 1.00 0.00 C
 ATOM 1327 O SERA 91135.654 -6.286 8.864 1.00 0.00 O
 ATOM 1328 CB SERA 91134.664 -4.130 7.419 1.00 0.00 C
 ATOM 1329 OG SERA 91134.264 -3.549 8.648 1.00 0.00 O
 ATOM 1330 H SERA 91136.270 -4.856 5.344 1.00 0.00 H
 ATOM 1331 HA SERA 91136.672 -3.708 8.027 1.00 0.00 H
 ATOM 1332 1HB SERA 91134.440 -3.440 6.619 1.00 0.00 H
 ATOM 1333 2HB SERA 91134.111 -5.046 7.272 1.00 0.00 H
 ATOM 1334 HG SERA 91134.508 -2.620 8.658 1.00 0.00 H
 ATOM 1335 N ARG A 92137.459 -6.487 7.536 1.00 0.00 N
 ATOM 1336 CA ARG A 92137.799 -7.821 8.017 1.00 0.00 C
 ATOM 1337 C ARG A 92138.193 -7.782 9.490 1.00 0.00 C
 ATOM 1338 O ARG A 92137.991 -8.751 10.223 1.00 0.00 O
 ATOM 1339 CB ARG A 92138.940 -8.410 7.187 1.00 0.00 C
 ATOM 1340 CG ARG A 92138.468 -9.193 5.972 1.00 0.00 C
 ATOM 1341 CD ARG A 92138.300 -8.294 4.757 1.00 0.00 C
 ATOM 1342 NE ARG A 92136.945 -8.354 4.214 1.00 0.00 N
 ATOM 1343 CZ ARG A 92136.620 -7.964 2.984 1.00 0.00 C
 ATOM 1344 NH1 ARG A 92137.549 -7.484 2.165 1.00 0.00 N
 ATOM 1345 NH2 ARG A 92135.364 -8.053 2.569 1.00 0.00 N

ATOM 1346 H ARG A 92138.021 -6.068 6.851 1.00 0.00 H
 ATOM 1347 HA ARG A 92136.925 -8.445 7.907 1.00 0.00 H
 ATOM 1348 1HB ARG A 92139.575 -7.605 6.845 1.00 0.00 H
 ATOM 1349 2HB ARG A 92139.520 -9.073 7.812 1.00 0.00 H
 ATOM 1350 1HG ARG A 92139.195 -9.958 5.744 1.00 0.00 H
 ATOM 1351 2HG ARG A 92137.518 -9.654 6.201 1.00 0.00 H
 ATOM 1352 1HD ARG A 92138.517 -7.276 5.043 1.00 0.00 H
 ATOM 1353 2HD ARG A 92138.997 -8.609 3.994 1.00 0.00 H
 ATOM 1354 HE ARG A 92136.240 -8.704 4.798 1.00 0.00 H
 ATOM 1355 1HH1 ARG A 92138.499 -7.414 2.472 1.00 0.00 H
 ATOM 1356 2HH1 ARG A 92137.299 -7.193 1.242 1.00 0.00 H
 ATOM 1357 1HH2 ARG A 92134.660 -8.414 3.182 1.00 0.00 H
 ATOM 1358 2HH2 ARG A 92135.120 -7.759 1.646 1.00 0.00 H
 ATOM 1359 N PHE A 93138.757 -6.657 9.917 1.00 0.00 N
 ATOM 1360 CA PHE A 93139.180 -6.492 11.304 1.00 0.00 C
 ATOM 1361 C PHE A 93138.401 -5.369 11.982 1.00 0.00 C
 ATOM 1362 O PHE A 93138.910 -4.705 12.885 1.00 0.00 O
 ATOM 1363 CB PHE A 93140.679 -6.198 11.369 1.00 0.00 C
 ATOM 1364 CG PHE A 93141.523 -7.226 10.669 1.00 0.00 C
 ATOM 1365 CD1 PHE A 93142.351 -8.069 11.393 1.00 0.00 C
 ATOM 1366 CD2 PHE A 93141.487 -7.347 9.290 1.00 0.00 C
 ATOM 1367 CE1 PHE A 93143.128 -9.015 10.752 1.00 0.00 C
 ATOM 1368 CE2 PHE A 93142.262 -8.291 8.643 1.00 0.00 C
 ATOM 1369 CZ PHE A 93143.084 -9.127 9.375 1.00 0.00 C
 ATOM 1370 H PHE A 93138.892 -5.919 9.286 1.00 0.00 H
 ATOM 1371 HA PHE A 93138.980 -7.417 11.823 1.00 0.00 H
 ATOM 1372 1HB PHE A 93140.872 -5.241 10.908 1.00 0.00 H
 ATOM 1373 2HB PHE A 93140.986 -6.162 12.404 1.00 0.00 H
 ATOM 1374 HD1 PHE A 93142.386 -7.983 12.469 1.00 0.00 H
 ATOM 1375 HD2 PHE A 93140.845 -6.695 8.717 1.00 0.00 H
 ATOM 1376 HE1 PHE A 93143.770 -9.667 11.326 1.00 0.00 H

ATOM	1377	HE2	PHE A	93142.225	-8.376	7.567	1.00	0.00	H
ATOM	1378	HZ	PHE A	93143.690	-9.865	8.873	1.00	0.00	H
ATOM	1379	N	ALA A	94137.162	-5.162	11.543	1.00	0.00	N
ATOM	1380	CA	ALA A	94136.315	-4.119	12.109	1.00	0.00	C
ATOM	1381	C	ALA A	94136.137	-4.315	13.612	1.00	0.00	C
ATOM	1382	O	ALA A	94135.661	-5.358	14.061	1.00	0.00	O
ATOM	1383	CB	ALA A	94134.964	-4.101	11.410	1.00	0.00	C
ATOM	1384	H	ALA A	94136.811	-5.723	10.819	1.00	0.00	H
ATOM	1385	HA	ALA A	94136.796	-3.168	11.936	1.00	0.00	H
ATOM	1386	1HB	ALA A	94134.900	-3.232	10.773	1.00	0.00	H
ATOM	1387	2HB	ALA A	94134.175	-4.065	12.147	1.00	0.00	H
ATOM	1388	3HB	ALA A	94134.856	-4.994	10.812	1.00	0.00	H
ATOM	1389	N	SER A	95136.521	-3.304	14.385	1.00	0.00	N
ATOM	1390	CA	SER A	95136.403	-3.364	15.837	1.00	0.00	C
ATOM	1391	C	SER A	95134.940	-3.417	16.263	1.00	0.00	C
ATOM	1392	O	SER A	95134.056	-2.942	15.549	1.00	0.00	O
ATOM	1393	CB	SER A	95137.088	-2.155	16.476	1.00	0.00	C
ATOM	1394	OG	SER A	95138.479	-2.154	16.204	1.00	0.00	O
ATOM	1395	H	SER A	95136.892	-2.498	13.968	1.00	0.00	H
ATOM	1396	HA	SER A	95136.895	-4.265	16.172	1.00	0.00	H
ATOM	1397	1HB	SER A	95136.657	-1.249	16.081	1.00	0.00	H
ATOM	1398	2HB	SER A	95136.943	-2.187	17.546	1.00	0.00	H
ATOM	1399	HG	SER A	95138.947	-2.573	16.930	1.00	0.00	H
ATOM	1400	N	LEU A	96134.689	-3.999	17.432	1.00	0.00	N
ATOM	1401	CA	LEU A	96133.333	-4.114	17.954	1.00	0.00	C
ATOM	1402	C	LEU A	96132.453	-4.926	17.010	1.00	0.00	C
ATOM	1403	O	LEU A	96131.929	-4.402	16.027	1.00	0.00	O
ATOM	1404	CB	LEU A	96132.727	-2.726	18.167	1.00	0.00	C
ATOM	1405	CG	LEU A	96131.527	-2.680	19.115	1.00	0.00	C
ATOM	1406	CD1	LEU A	96131.490	-1.359	19.866	1.00	0.00	C
ATOM	1407	CD2	LEU A	96130.232	-2.895	18.344	1.00	0.00	C

ATOM 1408 H LEU A 96135.436 -4.359 17.956 1.00 0.00 H
 ATOM 1409 HA LEU A 96133.386 -4.624 18.904 1.00 0.00 H
 ATOM 1410 1HB LEU A 96133.496 -2.077 18.561 1.00 0.00 H
 ATOM 1411 2HB LEU A 96132.413 -2.342 17.208 1.00 0.00 H
 ATOM 1412 HG LEU A 96131.621 -3.475 19.840 1.00 0.00 H
 ATOM 1413 1HD1 LEU A 96131.103 -0.587 19.218 1.00 0.00 H
 ATOM 1414 2HD1 LEU A 96132.487 -1.097 20.183 1.00 0.00 H
 ATOM 1415 3HD1 LEU A 96130.851 -1.456 20.732 1.00 0.00 H
 ATOM 1416 1HD2 LEU A 96130.444 -3.422 17.426 1.00 0.00 H
 ATOM 1417 2HD2 LEU A 96129.787 -1.938 18.116 1.00 0.00 H
 ATOM 1418 3HD2 LEU A 96129.548 -3.477 18.945 1.00 0.00 H
 ATOM 1419 N GLN A 97132.295 -6.211 17.314 1.00 0.00 N
 ATOM 1420 CA GLN A 97131.478 -7.096 16.492 1.00 0.00 C
 ATOM 1421 C GLN A 97130.853 -8.204 17.339 1.00 0.00 C
 ATOM 1422 O GLN A 97131.005 -9.388 17.040 1.00 0.00 O
 ATOM 1423 CB GLN A 97132.321 -7.708 15.371 1.00 0.00 C
 ATOM 1424 CG GLN A 97131.511 -8.109 14.149 1.00 0.00 C
 ATOM 1425 CD GLN A 97132.049 -9.356 13.476 1.00 0.00 C
 ATOM 1426 OE1 GLN A 97132.386 -10.337 14.138 1.00 0.00 O
 ATOM 1427 NE2 GLN A 97132.134 -9.323 12.151 1.00 0.00 N
 ATOM 1428 H GLN A 97132.738 -6.571 18.110 1.00 0.00 H
 ATOM 1429 HA GLN A 97130.687 -6.506 16.055 1.00 0.00 H
 ATOM 1430 1HB GLN A 97133.065 -6.987 15.061 1.00 0.00 H
 ATOM 1431 2HB GLN A 97132.821 -8.588 15.750 1.00 0.00 H
 ATOM 1432 1HG GLN A 97130.492 -8.296 14.455 1.00 0.00 H
 ATOM 1433 2HG GLN A 97131.530 -7.296 13.438 1.00 0.00 H
 ATOM 1434 1HE2 GLN A 97131.847 -8.508 11.689 1.00 0.00 H
 ATOM 1435 2HE2 GLN A 97132.478 -10.116 11.690 1.00 0.00 H
 ATOM 1436 N PRO A 98130.137 -7.830 18.413 1.00 0.00 N
 ATOM 1437 CA PRO A 98129.487 -8.797 19.305 1.00 0.00 C
 ATOM 1438 C PRO A 98128.279 -9.461 18.655 1.00 0.00 C

ATOM 1439 O PRO A 98128.061 -9.336 17.449 1.00 0.00 O
 ATOM 1440 CB PRO A 98129.050 -7.941 20.495 1.00 0.00 C
 ATOM 1441 CG PRO A 98128.876 -6.573 19.933 1.00 0.00 C
 ATOM 1442 CD PRO A 98129.904 -6.437 18.843 1.00 0.00 C
 ATOM 1443 HA PRO A 98130.179 -9.556 19.637 1.00 0.00 H
 ATOM 1444 1HB PRO A 98128.126 -8.326 20.898 1.00 0.00 H
 ATOM 1445 2HB PRO A 98129.817 -7.960 21.256 1.00 0.00 H
 ATOM 1446 1HG PRO A 98127.881 -6.469 19.526 1.00 0.00 H
 ATOM 1447 2HG PRO A 98129.046 -5.836 20.703 1.00 0.00 H
 ATOM 1448 1HD PRO A 98129.515 -5.843 18.029 1.00 0.00 H
 ATOM 1449 2HD PRO A 98130.810 -5.998 19.233 1.00 0.00 H
 ATOM 1450 N SER A 99127.494 -10.169 19.462 1.00 0.00 N
 ATOM 1451 CA SER A 99126.306 -10.854 18.966 1.00 0.00 C
 ATOM 1452 C SER A 99125.385 -11.247 20.115 1.00 0.00 C
 ATOM 1453 O SER A 99125.840 -11.743 21.146 1.00 0.00 O
 ATOM 1454 CB SER A 99126.704 -12.096 18.168 1.00 0.00 C
 ATOM 1455 OG SER A 99127.637 -11.774 17.150 1.00 0.00 O
 ATOM 1456 H SER A 99127.719 -10.231 20.413 1.00 0.00 H
 ATOM 1457 HA SER A 99125.778 -10.172 18.315 1.00 0.00 H
 ATOM 1458 1HB SER A 99127.153 -12.820 18.832 1.00 0.00 H
 ATOM 1459 2HB SER A 99125.824 -12.526 17.710 1.00 0.00 H
 ATOM 1460 HG SER A 99128.438 -12.286 17.275 1.00 0.00 H
 ATOM 1461 N GLY A 100124.088 -11.024 19.932 1.00 0.00 N
 ATOM 1462 CA GLY A 100123.124 -11.361 20.963 1.00 0.00 C
 ATOM 1463 C GLY A 100121.706 -11.447 20.429 1.00 0.00 C
 ATOM 1464 O GLY A 100120.983 -10.451 20.420 1.00 0.00 O
 ATOM 1465 H GLY A 100123.782 -10.626 19.090 1.00 0.00 H
 ATOM 1466 1HA GLY A 100123.394 -12.314 21.393 1.00 0.00 H
 ATOM 1467 2HA GLY A 100123.161 -10.607 21.736 1.00 0.00 H
 ATOM 1468 N PRO A 101121.277 -12.635 19.970 1.00 0.00 N
 ATOM 1469 CA PRO A 101119.927 -12.833 19.431 1.00 0.00 C

ATOM 1470 C PRO A 101118.856 -12.759 20.514 1.00 0.00 C
 ATOM 1471 O PRO A 101117.797 -12.164 20.313 1.00 0.00 O
 ATOM 1472 CB PRO A 101119.986 -14.239 18.833 1.00 0.00 C
 ATOM 1473 CG PRO A 101121.058 -14.933 19.599 1.00 0.00 C
 ATOM 1474 CD PRO A 101122.072 -13.877 19.941 1.00 0.00 C
 ATOM 1475 HA PRO A 101119.703 -12.117 18.655 1.00 0.00 H
 ATOM 1476 1HB PRO A 101119.030 -14.727 18.958 1.00 0.00 H
 ATOM 1477 2HB PRO A 101120.230 -14.177 17.782 1.00 0.00 H
 ATOM 1478 1HG PRO A 101120.646 -15.363 20.501 1.00 0.00 H
 ATOM 1479 2HG PRO A 101121.508 -15.702 18.989 1.00 0.00 H
 ATOM 1480 1HD PRO A 101122.513 -14.076 20.907 1.00 0.00 H
 ATOM 1481 2HD PRO A 101122.836 -13.827 19.179 1.00 0.00 H
 ATOM 1482 N SER A 102119.138 -13.367 21.661 1.00 0.00 N
 ATOM 1483 CA SER A 102118.198 -13.369 22.776 1.00 0.00 C
 ATOM 1484 C SER A 102116.891 -14.051 22.386 1.00 0.00 C
 ATOM 1485 O SER A 102116.548 -14.126 21.206 1.00 0.00 O
 ATOM 1486 CB SER A 102117.922 -11.938 23.242 1.00 0.00 C
 ATOM 1487 OG SER A 102118.809 -11.557 24.277 1.00 0.00 O
 ATOM 1488 H SER A 102119.999 -13.824 21.760 1.00 0.00 H
 ATOM 1489 HA SER A 102118.650 -13.921 23.588 1.00 0.00 H
 ATOM 1490 1HB SER A 102118.047 -11.261 22.410 1.00 0.00 H
 ATOM 1491 2HB SER A 102116.908 -11.872 23.609 1.00 0.00 H
 ATOM 1492 HG SER A 102119.210 -10.712 24.061 1.00 0.00 H
 ATOM 1493 N SER A 103116.168 -14.548 23.383 1.00 0.00 N
 ATOM 1494 CA SER A 103114.898 -15.225 23.144 1.00 0.00 C
 ATOM 1495 C SER A 103113.728 -14.368 23.617 1.00 0.00 C
 ATOM 1496 O SER A 103113.660 -13.981 24.784 1.00 0.00 O
 ATOM 1497 CB SER A 103114.875 -16.578 23.856 1.00 0.00 C
 ATOM 1498 OG SER A 103115.624 -16.535 25.059 1.00 0.00 O
 ATOM 1499 H SER A 103116.495 -14.458 24.303 1.00 0.00 H
 ATOM 1500 HA SER A 103114.804 -15.386 22.081 1.00 0.00 H

ATOM 1501 1HB SER A 103113.855 -16.840 24.093 1.00 0.00 H
 ATOM 1502 2HB SER A 103115.299 -17.330 23.208 1.00 0.00 H
 ATOM 1503 HG SER A 103116.371 -17.133 24.992 1.00 0.00 H
 ATOM 1504 N GLY A 104112.809 -14.076 22.702 1.00 0.00 N
 ATOM 1505 CA GLY A 104111.653 -13.267 23.046 1.00 0.00 C
 ATOM 1506 C GLY A 104112.037 -11.875 23.512 1.00 0.00 C
 ATOM 1507 O GLY A 104111.578 -11.468 24.600 1.00 0.00 O
 ATOM 1508 OXT GLY A 104112.796 -11.196 22.791 1.00 0.00 O
 ATOM 1509 H GLY A 104112.915 -14.411 21.788 1.00 0.00 H
 ATOM 1510 1HA GLY A 104111.018 -13.179 22.176 1.00 0.00 H
 ATOM 1511 2HA GLY A 104111.103 -13.760 23.833 1.00 0.00 H
 TER 1512 GLY A 104
 ENDMDL

Three-Dimensional Structure Coordinate Table 5

ATOM 1 N GLY A 1119.934 2.440 -12.362 1.00 0.00 N
 ATOM 2 CA GLY A 1120.718 2.882 -11.176 1.00 0.00 C
 ATOM 3 C GLY A 1121.589 4.087 -11.473 1.00 0.00 C
 ATOM 4 O GLY A 1122.802 4.050 -11.266 1.00 0.00 O
 ATOM 5 1H GLY A 1120.404 1.634 -12.822 1.00 0.00 H
 ATOM 6 2H GLY A 1119.854 3.217 -13.049 1.00 0.00 H
 ATOM 7 3H GLY A 1118.978 2.151 -12.071 1.00 0.00 H
 ATOM 8 1HA GLY A 1120.034 3.135 -10.380 1.00 0.00 H
 ATOM 9 2HA GLY A 1121.348 2.067 -10.851 1.00 0.00 H
 ATOM 10 N SER A 2120.970 5.157 -11.960 1.00 0.00 N
 ATOM 11 CA SER A 2121.698 6.378 -12.287 1.00 0.00 C
 ATOM 12 C SER A 2122.748 6.115 -13.362 1.00 0.00 C
 ATOM 13 O SER A 2123.937 6.005 -13.067 1.00 0.00 O
 ATOM 14 CB SER A 2122.364 6.950 -11.035 1.00 0.00 C
 ATOM 15 OG SER A 2121.480 7.806 -10.331 1.00 0.00 O
 ATOM 16 H SER A 2120.001 5.125 -12.104 1.00 0.00 H

ATOM17 HA SER A 2120.985 7.096 -12.665 1.00 0.00 H
 ATOM18 1HB SER A 2122.654 6.140 -10.382 1.00 0.00 H
 ATOM19 2HB SER A 2123.239 7.514 -11.321 1.00 0.00 H
 ATOM20 HG SER A 2121.576 7.661 -9.387 1.00 0.00 H
 ATOM21 N SER A 3122.299 6.016 -14.609 1.00 0.00 N
 ATOM22 CA SER A 3123.200 5.765 -15.728 1.00 0.00 C
 ATOM23 C SER A 3123.931 4.438 -15.551 1.00 0.00 C
 ATOM24 O SER A 3123.690 3.708 -14.590 1.00 0.00 O
 ATOM25 CB SER A 3124.211 6.905 -15.859 1.00 0.00 C
 ATOM26 OG SER A 3123.566 8.124 -16.188 1.00 0.00 O
 ATOM27 H SER A 3121.339 6.112 -14.781 1.00 0.00 H
 ATOM28 HA SER A 3122.605 5.717 -16.628 1.00 0.00 H
 ATOM29 1HB SER A 3124.734 7.030 -14.923 1.00 0.00 H
 ATOM30 2HB SER A 3124.919 6.666 -16.639 1.00 0.00 H
 ATOM31 HG SER A 3122.788 8.233 -15.637 1.00 0.00 H
 ATOM32 N GLY A 4124.827 4.134 -16.485 1.00 0.00 N
 ATOM33 CA GLY A 4125.580 2.896 -16.413 1.00 0.00 C
 ATOM34 C GLY A 4126.815 3.017 -15.541 1.00 0.00 C
 ATOM35 O GLY A 4127.021 4.037 -14.883 1.00 0.00 O
 ATOM36 H GLY A 4124.978 4.755 -17.227 1.00 0.00 H
 ATOM37 1HA GLY A 4124.942 2.122 -16.011 1.00 0.00 H
 ATOM38 2HA GLY A 4125.883 2.614 -17.411 1.00 0.00 H
 ATOM39 N SER A 5127.638 1.973 -15.537 1.00 0.00 N
 ATOM40 CA SER A 5128.859 1.967 -14.740 1.00 0.00 C
 ATOM41 C SER A 5128.541 2.115 -13.255 1.00 0.00 C
 ATOM42 O SER A 5127.375 2.182 -12.864 1.00 0.00 O
 ATOM43 CB SER A 5129.792 3.093 -15.188 1.00 0.00 C
 ATOM44 OG SER A 5130.310 2.842 -16.482 1.00 0.00 O
 ATOM45 H SER A 5127.419 1.190 -16.083 1.00 0.00 H
 ATOM46 HA SER A 5129.352 1.019 -14.897 1.00 0.00 H
 ATOM47 1HB SER A 5129.245 4.025 -15.208 1.00 0.00 H

ATOM48 2HB SER A 5130.615 3.174 -14.493 1.00 0.00 H
 ATOM49 HG SER A 5130.634 1.939 -16.528 1.00 0.00 H
 ATOM50 N SER A 6129.584 2.166 -12.434 1.00 0.00 N
 ATOM51 CA SER A 6129.415 2.307 -10.992 1.00 0.00 C
 ATOM52 C SER A 6128.918 3.704 -10.637 1.00 0.00 C
 ATOM53 O SER A 6128.643 4.519 -11.517 1.00 0.00 O
 ATOM54 CB SER A 6130.735 2.024 -10.273 1.00 0.00 C
 ATOM55 OG SER A 6130.834 0.658 -9.907 1.00 0.00 O
 ATOM56 H SER A 6130.488 2.108 -12.805 1.00 0.00 H
 ATOM57 HA SER A 6128.680 1.584 -10.673 1.00 0.00 H
 ATOM58 1HB SER A 6131.558 2.268 -10.928 1.00 0.00 H
 ATOM59 2HB SER A 6130.794 2.629 -9.380 1.00 0.00 H
 ATOM60 HG SER A 6131.760 0.409 -9.847 1.00 0.00 H
 ATOM61 N GLY A 7128.805 3.974 -9.340 1.00 0.00 N
 ATOM62 CA GLY A 7128.341 5.274 -8.891 1.00 0.00 C
 ATOM63 C GLY A 7129.005 5.713 -7.601 1.00 0.00 C
 ATOM64 O GLY A 7129.918 5.051 -7.108 1.00 0.00 O
 ATOM65 H GLY A 7129.039 3.285 -8.683 1.00 0.00 H
 ATOM66 1HA GLY A 7128.552 6.003 -9.658 1.00 0.00 H
 ATOM67 2HA GLY A 7127.273 5.228 -8.736 1.00 0.00 H
 ATOM68 N LEU A 8128.544 6.833 -7.053 1.00 0.00 N
 ATOM69 CA LEU A 8129.099 7.360 -5.811 1.00 0.00 C
 ATOM70 C LEU A 8127.992 7.667 -4.808 1.00 0.00 C
 ATOM71 O LEU A 8126.829 7.822 -5.180 1.00 0.00 O
 ATOM72 CB LEU A 8129.916 8.624 -6.089 1.00 0.00 C
 ATOM73 CG LEU A 8131.353 8.378 -6.550 1.00 0.00 C
 ATOM74 CD1 LEU A 8131.955 9.650 -7.124 1.00 0.00 C
 ATOM75 CD2 LEU A 8132.199 7.859 -5.397 1.00 0.00 C
 ATOM76 H LEU A 8127.814 7.315 -7.493 1.00 0.00 H
 ATOM77 HA LEU A 8129.750 6.607 -5.392 1.00 0.00 H
 ATOM78 1HB LEU A 8129.407 9.194 -6.854 1.00 0.00 H

ATOM79 2HB LEU A 8129.947 9.213 -5.186 1.00 0.00 H
 ATOM80 HG LEU A 8131.352 7.628 -7.328 1.00 0.00 H
 ATOM81 1HD1 LEU A 8131.820 10.461 -6.423 1.00 0.00 H
 ATOM82 2HD1 LEU A 8131.462 9.894 -8.054 1.00 0.00 H
 ATOM83 3HD1 LEU A 8133.010 9.501 -7.304 1.00 0.00 H
 ATOM84 1HD2 LEU A 8132.928 7.157 -5.772 1.00 0.00 H
 ATOM85 2HD2 LEU A 8131.562 7.367 -4.676 1.00 0.00 H
 ATOM86 3HD2 LEU A 8132.706 8.686 -4.922 1.00 0.00 H
 ATOM87 N ALAA 9128.361 7.754 -3.534 1.00 0.00 N
 ATOM88 CA ALAA 9127.398 8.042 -2.478 1.00 0.00 C
 ATOM89 C ALAA 9128.053 8.796 -1.326 1.00 0.00 C
 ATOM90 O ALAA 9127.633 8.677 -0.176 1.00 0.00 O
 ATOM91 CB ALAA 9126.766 6.754 -1.975 1.00 0.00 C
 ATOM92 H ALAA 9129.303 7.619 -3.299 1.00 0.00 H
 ATOM93 HA ALAA 9126.617 8.658 -2.899 1.00 0.00 H
 ATOM94 1HB ALAA 9127.284 6.421 -1.087 1.00 0.00 H
 ATOM95 2HB ALAA 9126.839 5.994 -2.740 1.00 0.00 H
 ATOM96 3HB ALAA 9125.726 6.929 -1.742 1.00 0.00 H
 ATOM97 N META 10129.085 9.573 -1.643 1.00 0.00 N
 ATOM98 CA META 10129.796 10.347 -0.633 1.00 0.00 C
 ATOM99 C META 10130.666 11.422 -1.282 1.00 0.00 C
 ATOM 100 O META 10131.871 11.241 -1.449 1.00 0.00 O
 ATOM 101 CB META 10130.664 9.427 0.230 1.00 0.00 C
 ATOM 102 CG META 10130.012 9.038 1.548 1.00 0.00 C
 ATOM 103 SD META 10130.760 9.864 2.965 1.00 0.00 S
 ATOM 104 CE META 10132.424 9.208 2.903 1.00 0.00 C
 ATOM 105 H META 10129.373 9.628 -2.578 1.00 0.00 H
 ATOM 106 HA META 10129.061 10.827 -0.005 1.00 0.00 H
 ATOM 107 1HB META 10130.870 8.525 -0.325 1.00 0.00 H
 ATOM 108 2HB META 10131.596 9.928 0.446 1.00 0.00 H
 ATOM 109 1HG META 10128.966 9.301 1.508 1.00 0.00 H

ATOM	110	2HG	MET A	10130.109	7.970	1.680	1.00	0.00	H
ATOM	111	1HE	MET A	10132.732	9.103	1.872	1.00	0.00	H
ATOM	112	2HE	MET A	10132.449	8.242	3.384	1.00	0.00	H
ATOM	113	3HE	MET A	10133.098	9.881	3.412	1.00	0.00	H
ATOM	114	N	PRO A	11130.060	12.563	-1.655	1.00	0.00	N
ATOM	115	CA	PRO A	11130.787	13.668	-2.285	1.00	0.00	C
ATOM	116	C	PRO A	11131.997	14.110	-1.464	1.00	0.00	C
ATOM	117	O	PRO A	11133.081	14.317	-2.011	1.00	0.00	O
ATOM	118	CB	PRO A	11129.751	14.793	-2.359	1.00	0.00	C
ATOM	119	CG	PRO A	11128.428	14.110	-2.301	1.00	0.00	C
ATOM	120	CD	PRO A	11128.627	12.861	-1.489	1.00	0.00	C
ATOM	121	HA	PRO A	11131.110	13.409	-3.282	1.00	0.00	H
ATOM	122	1HB	PRO A	11129.886	15.465	-1.524	1.00	0.00	H
ATOM	123	2HB	PRO A	11129.873	15.335	-3.285	1.00	0.00	H
ATOM	124	1HG	PRO A	11127.708	14.752	-1.821	1.00	0.00	H
ATOM	125	2HG	PRO A	11128.101	13.859	-3.300	1.00	0.00	H
ATOM	126	1HD	PRO A	11128.392	13.045	-0.451	1.00	0.00	H
ATOM	127	2HD	PRO A	11128.020	12.057	-1.877	1.00	0.00	H
ATOM	128	N	PRO A	12131.836	14.258	-0.134	1.00	0.00	N
ATOM	129	CA	PRO A	12132.932	14.672	0.747	1.00	0.00	C
ATOM	130	C	PRO A	12134.071	13.659	0.754	1.00	0.00	C
ATOM	131	O	PRO A	12135.204	13.984	1.107	1.00	0.00	O
ATOM	132	CB	PRO A	12132.283	14.754	2.136	1.00	0.00	C
ATOM	133	CG	PRO A	12130.815	14.809	1.879	1.00	0.00	C
ATOM	134	CD	PRO A	12130.591	14.030	0.616	1.00	0.00	C
ATOM	135	HA	PRO A	12133.318	15.642	0.469	1.00	0.00	H
ATOM	136	1HB	PRO A	12132.549	13.879	2.711	1.00	0.00	H
ATOM	137	2HB	PRO A	12132.626	15.641	2.644	1.00	0.00	H
ATOM	138	1HG	PRO A	12130.281	14.354	2.700	1.00	0.00	H
ATOM	139	2HG	PRO A	12130.502	15.834	1.748	1.00	0.00	H
ATOM	140	1HD	PRO A	12130.458	12.981	0.837	1.00	0.00	H

ATOM	141	2HD	PRO A	12129.738	14.416	0.081	1.00	0.00	H
ATOM	142	N	GLY A	13133.759	12.427	0.361	1.00	0.00	N
ATOM	143	CA	GLY A	13134.766	11.384	0.327	1.00	0.00	C
ATOM	144	C	GLY A	13135.229	11.068	-1.082	1.00	0.00	C
ATOM	145	O	GLY A	13134.684	11.593	-2.053	1.00	0.00	O
ATOM	146	H	GLY A	13132.837	12.226	0.090	1.00	0.00	H
ATOM	147	1HA	GLY A	13135.617	11.700	0.911	1.00	0.00	H
ATOM	148	2HA	GLY A	13134.355	10.487	0.768	1.00	0.00	H
ATOM	149	N	ASN A	14136.236	10.209	-1.194	1.00	0.00	N
ATOM	150	CA	ASN A	14136.770	9.824	-2.495	1.00	0.00	C
ATOM	151	C	ASN A	14135.847	8.829	-3.190	1.00	0.00	C
ATOM	152	O	ASN A	14135.407	9.058	-4.316	1.00	0.00	O
ATOM	153	CB	ASN A	14138.167	9.219	-2.337	1.00	0.00	C
ATOM	154	CG	ASN A	14139.066	10.061	-1.454	1.00	0.00	C
ATOM	155	OD1	ASN A	14139.732	10.984	-1.925	1.00	0.00	O
ATOM	156	ND2	ASN A	14139.090	9.749	-0.164	1.00	0.00	N
ATOM	157	H	ASN A	14136.629	9.823	-0.383	1.00	0.00	H
ATOM	158	HA	ASN A	14136.841	10.715	-3.100	1.00	0.00	H
ATOM	159	1HB	ASN A	14138.079	8.237	-1.896	1.00	0.00	H
ATOM	160	2HB	ASN A	14138.627	9.133	-3.310	1.00	0.00	H
ATOM	161	1HD2	ASN A	14138.535	9.002	0.142	1.00	0.00	H
ATOM	162	2HD2	ASN A	14139.663	10.277	0.430	1.00	0.00	H
ATOM	163	N	SER A	15135.560	7.722	-2.512	1.00	0.00	N
ATOM	164	CA	SER A	15134.689	6.693	-3.065	1.00	0.00	C
ATOM	165	C	SER A	15133.686	6.210	-2.022	1.00	0.00	C
ATOM	166	O	SER A	15132.492	6.099	-2.300	1.00	0.00	O
ATOM	167	CB	SER A	15135.520	5.512	-3.574	1.00	0.00	C
ATOM	168	OG	SER A	15134.733	4.638	-4.365	1.00	0.00	O
ATOM	169	H	SER A	15135.942	7.596	-1.618	1.00	0.00	H
ATOM	170	HA	SER A	15134.149	7.125	-3.893	1.00	0.00	H
ATOM	171	1HB	SER A	15136.337	5.884	-4.175	1.00	0.00	H

ATOM	172	2HB	SER A	15135.913	4.962	-2.732	1.00	0.00	H
ATOM	173	HG	SER A	15133.932	4.410	-3.889	1.00	0.00	H
ATOM	174	N	HIS A	16134.179	5.924	-0.822	1.00	0.00	N
ATOM	175	CA	HIS A	16133.325	5.452	0.263	1.00	0.00	C
ATOM	176	C	HIS A	16133.925	5.807	1.620	1.00	0.00	C
ATOM	177	O	HIS A	16133.233	6.314	2.502	1.00	0.00	O
ATOM	178	CB	HIS A	16133.124	3.940	0.160	1.00	0.00	C
ATOM	179	CG	HIS A	16131.734	3.497	0.497	1.00	0.00	C
ATOM	180	ND1	HIS A	16131.293	3.324	1.793	1.00	0.00	N
ATOM	181	CD2	HIS A	16130.683	3.192	-0.300	1.00	0.00	C
ATOM	182	CE1	HIS A	16130.032	2.931	1.777	1.00	0.00	C
ATOM	183	NE2	HIS A	16129.638	2.843	0.520	1.00	0.00	N
ATOM	184	H	HIS A	16135.140	6.032	-0.662	1.00	0.00	H
ATOM	185	HA	HIS A	16132.367	5.942	0.166	1.00	0.00	H
ATOM	186	1HB	HIS A	16133.337	3.623	-0.849	1.00	0.00	H
ATOM	187	2HB	HIS A	16133.806	3.445	0.838	1.00	0.00	H
ATOM	188	HD1	HIS A	16131.825	3.467	2.603	1.00	0.00	H
ATOM	189	HD2	HIS A	16130.670	3.217	-1.381	1.00	0.00	H
ATOM	190	HE1	HIS A	16129.425	2.718	2.646	1.00	0.00	H
ATOM	191	HE2	HIS A	16128.774	2.491	0.222	1.00	0.00	H
ATOM	192	N	GLY A	17135.217	5.537	1.779	1.00	0.00	N
ATOM	193	CA	GLY A	17135.887	5.834	3.032	1.00	0.00	C
ATOM	194	C	GLY A	17137.270	5.217	3.109	1.00	0.00	C
ATOM	195	O	GLY A	17137.577	4.481	4.045	1.00	0.00	O
ATOM	196	H	GLY A	17135.718	5.132	1.041	1.00	0.00	H
ATOM	197	1HA	GLY A	17135.976	6.905	3.134	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.289	5.453	3.846	1.00	0.00	H
ATOM	199	N	LEU A	18138.106	5.519	2.121	1.00	0.00	N
ATOM	200	CA	LEU A	18139.464	4.989	2.080	1.00	0.00	C
ATOM	201	C	LEU A	18140.482	6.077	2.411	1.00	0.00	C
ATOM	202	O	LEU A	18140.788	6.929	1.578	1.00	0.00	O

ATOM	203	CB	LEU A	18139.763	4.398	0.701	1.00	0.00	C
ATOM	204	CG	LEU A	18139.023	3.098	0.381	1.00	0.00	C
ATOM	205	CD1	LEU A	18138.916	2.902	-1.124	1.00	0.00	C
ATOM	206	CD2	LEU A	18139.726	1.914	1.027	1.00	0.00	C
ATOM	207	H	LEU A	18137.802	6.112	1.403	1.00	0.00	H
ATOM	208	HA	LEU A	18139.537	4.207	2.821	1.00	0.00	H
ATOM	209	1HB	LEU A	18139.500	5.133	-0.046	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.824	4.207	0.636	1.00	0.00	H
ATOM	211	HG	LEU A	18138.021	3.154	0.781	1.00	0.00	H
ATOM	212	1HD1	LEU A	18138.964	1.848	-1.354	1.00	0.00	H
ATOM	213	2HD1	LEU A	18139.732	3.415	-1.612	1.00	0.00	H
ATOM	214	3HD1	LEU A	18137.978	3.305	-1.473	1.00	0.00	H
ATOM	215	1HD2	LEU A	18139.773	2.062	2.095	1.00	0.00	H
ATOM	216	2HD2	LEU A	18140.726	1.828	0.630	1.00	0.00	H
ATOM	217	3HD2	LEU A	18139.175	1.009	0.813	1.00	0.00	H
ATOM	218	N	GLU A	19141.003	6.039	3.633	1.00	0.00	N
ATOM	219	CA	GLU A	19141.987	7.021	4.076	1.00	0.00	C
ATOM	220	C	GLU A	19143.003	6.385	5.019	1.00	0.00	C
ATOM	221	O	GLU A	19142.915	5.198	5.333	1.00	0.00	O
ATOM	222	CB	GLU A	19141.291	8.193	4.771	1.00	0.00	C
ATOM	223	CG	GLU A	19140.354	7.767	5.889	1.00	0.00	C
ATOM	224	CD	GLU A	19139.186	8.717	6.064	1.00	0.00	C
ATOM	225	OE1	GLU A	19138.168	8.543	5.361	1.00	0.00	O
ATOM	226	OE2	GLU A	19139.287	9.634	6.905	1.00	0.00	O
ATOM	227	H	GLU A	19140.719	5.335	4.253	1.00	0.00	H
ATOM	228	HA	GLU A	19142.504	7.388	3.202	1.00	0.00	H
ATOM	229	1HB	GLU A	19142.043	8.845	5.190	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.717	8.741	4.040	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.968	6.784	5.664	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.911	7.730	6.814	1.00	0.00	H
ATOM	233	N	VAL A	20143.968	7.183	5.466	1.00	0.00	N

ATOM	234	CA	VAL A	20145.001	6.699	6.374	1.00	0.00	C
ATOM	235	C	VAL A	20144.390	6.120	7.646	1.00	0.00	C
ATOM	236	O	VAL A	20143.480	6.706	8.230	1.00	0.00	O
ATOM	237	CB	VAL A	20145.985	7.822	6.754	1.00	0.00	C
ATOM	238	CG1	VAL A	20147.147	7.267	7.563	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.487	8.537	5.508	1.00	0.00	C
ATOM	240	H	VAL A	20143.984	8.120	5.180	1.00	0.00	H
ATOM	241	HA	VAL A	20145.554	5.922	5.865	1.00	0.00	H
ATOM	242	HB	VAL A	20145.460	8.540	7.368	1.00	0.00	H
ATOM	243	1HG1	VAL A	20147.999	7.923	7.468	1.00	0.00	H
ATOM	244	2HG1	VAL A	20147.406	6.286	7.194	1.00	0.00	H
ATOM	245	3HG1	VAL A	20146.861	7.195	8.602	1.00	0.00	H
ATOM	246	1HG2	VAL A	20146.440	7.864	4.665	1.00	0.00	H
ATOM	247	2HG2	VAL A	20147.508	8.853	5.661	1.00	0.00	H
ATOM	248	3HG2	VAL A	20145.868	9.401	5.315	1.00	0.00	H
ATOM	249	N	GLY A	21144.897	4.967	8.068	1.00	0.00	N
ATOM	250	CA	GLY A	21144.389	4.329	9.267	1.00	0.00	C
ATOM	251	C	GLY A	21143.329	3.289	8.967	1.00	0.00	C
ATOM	252	O	GLY A	21143.299	2.225	9.586	1.00	0.00	O
ATOM	253	H	GLY A	21145.624	4.546	7.561	1.00	0.00	H
ATOM	254	1HA	GLY A	21145.208	3.852	9.784	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.963	5.084	9.912	1.00	0.00	H
ATOM	256	N	SER A	22142.455	3.595	8.013	1.00	0.00	N
ATOM	257	CA	SER A	22141.387	2.679	7.631	1.00	0.00	C
ATOM	258	C	SER A	22141.933	1.524	6.796	1.00	0.00	C
ATOM	259	O	SER A	22142.942	1.668	6.106	1.00	0.00	O
ATOM	260	CB	SER A	22140.304	3.423	6.847	1.00	0.00	C
ATOM	261	OG	SER A	22140.042	4.693	7.418	1.00	0.00	O
ATOM	262	H	SER A	22142.530	4.459	7.555	1.00	0.00	H
ATOM	263	HA	SER A	22140.953	2.280	8.535	1.00	0.00	H
ATOM	264	1HB	SER A	22140.632	3.561	5.828	1.00	0.00	H

ATOM	265	2HB	SER A	22139.393	2.842	6.856	1.00	0.00	H
ATOM	266	HG	SER A	22139.251	5.065	7.021	1.00	0.00	H
ATOM	267	N	LEU A	23141.259	0.381	6.865	1.00	0.00	N
ATOM	268	CA	LEU A	23141.677	-0.798	6.116	1.00	0.00	C
ATOM	269	C	LEU A	23141.131	-0.761	4.693	1.00	0.00	C
ATOM	270	O	LEU A	23140.073	-0.186	4.438	1.00	0.00	O
ATOM	271	CB	LEU A	23141.206	-2.070	6.824	1.00	0.00	C
ATOM	272	CG	LEU A	23141.688	-2.224	8.267	1.00	0.00	C
ATOM	273	CD1	LEU A	23140.698	-3.049	9.075	1.00	0.00	C
ATOM	274	CD2	LEU A	23143.069	-2.862	8.302	1.00	0.00	C
ATOM	275	H	LEU A	23140.463	0.329	7.434	1.00	0.00	H
ATOM	276	HA	LEU A	23142.756	-0.799	6.074	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.126	-2.077	6.823	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.555	-2.921	6.259	1.00	0.00	H
ATOM	279	HG	LEU A	23141.758	-1.248	8.722	1.00	0.00	H
ATOM	280	1HD1	LEU A	23140.860	-4.098	8.880	1.00	0.00	H
ATOM	281	2HD1	LEU A	23139.691	-2.781	8.791	1.00	0.00	H
ATOM	282	3HD1	LEU A	23140.840	-2.852	10.127	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.649	-2.423	9.100	1.00	0.00	H
ATOM	284	2HD2	LEU A	23143.568	-2.691	7.359	1.00	0.00	H
ATOM	285	3HD2	LEU A	23142.970	-3.924	8.469	1.00	0.00	H
ATOM	286	N	ALA A	24141.859	-1.379	3.768	1.00	0.00	N
ATOM	287	CA	ALA A	24141.447	-1.417	2.370	1.00	0.00	C
ATOM	288	C	ALA A	24141.974	-2.668	1.676	1.00	0.00	C
ATOM	289	O	ALA A	24142.870	-3.341	2.186	1.00	0.00	O
ATOM	290	CB	ALA A	24141.925	-0.168	1.646	1.00	0.00	C
ATOM	291	H	ALA A	24142.693	-1.820	4.032	1.00	0.00	H
ATOM	292	HA	ALA A	24140.367	-1.430	2.341	1.00	0.00	H
ATOM	293	1HB	ALA A	24141.383	-0.061	0.718	1.00	0.00	H
ATOM	294	2HB	ALA A	24142.981	-0.255	1.439	1.00	0.00	H
ATOM	295	3HB	ALA A	24141.749	0.698	2.267	1.00	0.00	H

ATOM	296	N	GLU A	25141.413	-2.975	0.511	1.00	0.00	N
ATOM	297	CA	GLU A	25141.827	-4.145	-0.252	1.00	0.00	C
ATOM	298	C	GLU A	25142.061	-3.785	-1.716	1.00	0.00	C
ATOM	299	O	GLU A	25141.346	-2.961	-2.285	1.00	0.00	O
ATOM	300	CB	GLU A	25140.773	-5.248	-0.147	1.00	0.00	C
ATOM	301	CG	GLU A	25141.270	-6.611	-0.600	1.00	0.00	C
ATOM	302	CD	GLU A	25140.237	-7.371	-1.407	1.00	0.00	C
ATOM	303	OE1	GLU A	25139.590	-8.277	-0.841	1.00	0.00	O
ATOM	304	OE2	GLU A	25140.072	-7.060	-2.605	1.00	0.00	O
ATOM	305	H	GLU A	25140.703	-2.399	0.156	1.00	0.00	H
ATOM	306	HA	GLU A	25142.754	-4.505	0.169	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.453	-5.328	0.880	1.00	0.00	H
ATOM	308	2HB	GLU A	25139.924	-4.978	-0.760	1.00	0.00	H
ATOM	309	1HG	GLU A	25142.151	-6.474	-1.210	1.00	0.00	H
ATOM	310	2HG	GLU A	25141.525	-7.194	0.273	1.00	0.00	H
ATOM	311	N	VAL A	26143.066	-4.410	-2.321	1.00	0.00	N
ATOM	312	CA	VAL A	26143.394	-4.156	-3.718	1.00	0.00	C
ATOM	313	C	VAL A	26142.998	-5.336	-4.599	1.00	0.00	C
ATOM	314	O	VAL A	26143.026	-6.486	-4.161	1.00	0.00	O
ATOM	315	CB	VAL A	26144.898	-3.876	-3.901	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.188	-3.419	-5.322	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.374	-2.841	-2.892	1.00	0.00	C
ATOM	318	H	VAL A	26143.601	-5.057	-1.815	1.00	0.00	H
ATOM	319	HA	VAL A	26142.845	-3.282	-4.036	1.00	0.00	H
ATOM	320	HB	VAL A	26145.438	-4.794	-3.724	1.00	0.00	H
ATOM	321	1HG1	VAL A	26144.303	-2.967	-5.743	1.00	0.00	H
ATOM	322	2HG1	VAL A	26145.477	-4.270	-5.921	1.00	0.00	H
ATOM	323	3HG1	VAL A	26145.990	-2.697	-5.311	1.00	0.00	H
ATOM	324	1HG2	VAL A	26145.426	-3.291	-1.912	1.00	0.00	H
ATOM	325	2HG2	VAL A	26144.682	-2.013	-2.872	1.00	0.00	H
ATOM	326	3HG2	VAL A	26146.354	-2.485	-3.177	1.00	0.00	H

ATOM	327	N	LYS A	27142.631	-5.043	-5.842	1.00	0.00	N
ATOM	328	CA	LYS A	27142.230	-6.080	-6.785	1.00	0.00	C
ATOM	329	C	LYS A	27143.429	-6.587	-7.579	1.00	0.00	C
ATOM	330	O	LYS A	27143.642	-6.187	-8.723	1.00	0.00	O
ATOM	331	CB	LYS A	27141.161	-5.544	-7.739	1.00	0.00	C
ATOM	332	CG	LYS A	27139.740	-5.743	-7.235	1.00	0.00	C
ATOM	333	CD	LYS A	27139.084	-6.954	-7.879	1.00	0.00	C
ATOM	334	CE	LYS A	27139.179	-8.181	-6.985	1.00	0.00	C
ATOM	335	NZ	LYS A	27139.457	-9.418	-7.765	1.00	0.00	N
ATOM	336	H	LYS A	27142.630	-4.106	-6.132	1.00	0.00	H
ATOM	337	HA	LYS A	27141.815	-6.900	-6.219	1.00	0.00	H
ATOM	338	1HB	LYS A	27141.323	-4.487	-7.886	1.00	0.00	H
ATOM	339	2HB	LYS A	27141.257	-6.049	-8.689	1.00	0.00	H
ATOM	340	1HG	LYS A	27139.765	-5.886	-6.166	1.00	0.00	H
ATOM	341	2HG	LYS A	27139.159	-4.863	-7.470	1.00	0.00	H
ATOM	342	1HD	LYS A	27138.044	-6.734	-8.061	1.00	0.00	H
ATOM	343	2HD	LYS A	27139.579	-7.164	-8.816	1.00	0.00	H
ATOM	344	1HE	LYS A	27139.976	-8.030	-6.272	1.00	0.00	H
ATOM	345	2HE	LYS A	27138.244	-8.299	-6.459	1.00	0.00	H
ATOM	346	1HZ	LYS A	27138.945	-10.223	-7.353	1.00	0.00	H
ATOM	347	2HZ	LYS A	27140.475	-9.627	-7.756	1.00	0.00	H
ATOM	348	3HZ	LYS A	27139.150	-9.294	-8.752	1.00	0.00	H
ATOM	349	N	GLU A	28144.209	-7.469	-6.964	1.00	0.00	N
ATOM	350	CA	GLU A	28145.388	-8.032	-7.613	1.00	0.00	C
ATOM	351	C	GLU A	28145.339	-9.556	-7.602	1.00	0.00	C
ATOM	352	O	GLU A	28144.374	-10.153	-7.126	1.00	0.00	O
ATOM	353	CB	GLU A	28146.661	-7.544	-6.918	1.00	0.00	C
ATOM	354	CG	GLU A	28147.726	-7.045	-7.879	1.00	0.00	C
ATOM	355	CD	GLU A	28148.621	-5.987	-7.262	1.00	0.00	C
ATOM	356	OE1	GLU A	28148.123	-4.875	-6.987	1.00	0.00	O
ATOM	357	OE2	GLU A	28149.819	-6.271	-7.052	1.00	0.00	O

ATOM 358 H GLU A 28143.987 -7.749 -6.051 1.00 0.00 H
 ATOM 359 HA GLU A 28145.396 -7.691 -8.638 1.00 0.00 H
 ATOM 360 1HB GLU A 28146.405 -6.736 -6.249 1.00 0.00 H
 ATOM 361 2HB GLU A 28147.079 -8.356 -6.341 1.00 0.00 H
 ATOM 362 1HG GLU A 28148.340 -7.880 -8.183 1.00 0.00 H
 ATOM 363 2HG GLU A 28147.241 -6.623 -8.748 1.00 0.00 H
 ATOM 364 N ASN A 29146.388 -10.180 -8.131 1.00 0.00 N
 ATOM 365 CA ASN A 29146.464 -11.635 -8.182 1.00 0.00 C
 ATOM 366 C ASN A 29146.473 -12.229 -6.774 1.00 0.00 C
 ATOM 367 O ASN A 29145.597 -13.017 -6.419 1.00 0.00 O
 ATOM 368 CB ASN A 29147.717 -12.075 -8.943 1.00 0.00 C
 ATOM 369 CG ASN A 29147.423 -12.410 -10.393 1.00 0.00 C
 ATOM 370 OD1 ASN A 29147.664 -13.530 -10.844 1.00 0.00 O
 ATOM 371 ND2 ASN A 29146.902 -11.437 -11.130 1.00 0.00 N
 ATOM 372 H ASN A 29147.126 -9.650 -8.495 1.00 0.00 H
 ATOM 373 HA ASN A 29145.590 -11.995 -8.705 1.00 0.00 H
 ATOM 374 1HB ASN A 29148.444 -11.278 -8.918 1.00 0.00 H
 ATOM 375 2HB ASN A 29148.132 -12.951 -8.467 1.00 0.00 H
 ATOM 376 1HD2 ASN A 29146.737 -10.570 -10.704 1.00 0.00 H
 ATOM 377 2HD2 ASN A 29146.701 -11.625 -12.071 1.00 0.00 H
 ATOM 378 N PRO A 30147.468 -11.853 -5.951 1.00 0.00 N
 ATOM 379 CA PRO A 30147.587 -12.350 -4.578 1.00 0.00 C
 ATOM 380 C PRO A 30146.604 -11.669 -3.628 1.00 0.00 C
 ATOM 381 O PRO A 30146.755 -10.489 -3.310 1.00 0.00 O
 ATOM 382 CB PRO A 30149.025 -11.990 -4.206 1.00 0.00 C
 ATOM 383 CG PRO A 30149.325 -10.773 -5.008 1.00 0.00 C
 ATOM 384 CD PRO A 30148.555 -10.915 -6.295 1.00 0.00 C
 ATOM 385 HA PRO A 30147.456 -13.420 -4.531 1.00 0.00 H
 ATOM 386 1HB PRO A 30149.086 -11.793 -3.146 1.00 0.00 H
 ATOM 387 2HB PRO A 30149.682 -12.806 -4.465 1.00 0.00 H
 ATOM 388 1HG PRO A 30149.001 -9.892 -4.474 1.00 0.00 H

ATOM	389	2HG	PRO A	30150.385	-10.720	-5.212	1.00	0.00	H
ATOM	390	1HD	PRO A	30148.156	-9.960	-6.602	1.00	0.00	H
ATOM	391	2HD	PRO A	30149.186	-11.325	-7.069	1.00	0.00	H
ATOM	392	N	PRO A	31145.579	-12.403	-3.156	1.00	0.00	N
ATOM	393	CA	PRO A	31144.575	-11.854	-2.239	1.00	0.00	C
ATOM	394	C	PRO A	31145.149	-11.573	-0.854	1.00	0.00	C
ATOM	395	O	PRO A	31145.083	-12.418	0.038	1.00	0.00	O
ATOM	396	CB	PRO A	31143.517	-12.957	-2.165	1.00	0.00	C
ATOM	397	CG	PRO A	31144.253	-14.209	-2.491	1.00	0.00	C
ATOM	398	CD	PRO A	31145.317	-13.819	-3.478	1.00	0.00	C
ATOM	399	HA	PRO A	31144.132	-10.951	-2.633	1.00	0.00	H
ATOM	400	1HB	PRO A	31143.097	-12.991	-1.170	1.00	0.00	H
ATOM	401	2HB	PRO A	31142.737	-12.761	-2.885	1.00	0.00	H
ATOM	402	1HG	PRO A	31144.703	-14.614	-1.596	1.00	0.00	H
ATOM	403	2HG	PRO A	31143.580	-14.929	-2.931	1.00	0.00	H
ATOM	404	1HD	PRO A	31146.205	-14.418	-3.334	1.00	0.00	H
ATOM	405	2HD	PRO A	31144.950	-13.923	-4.488	1.00	0.00	H
ATOM	406	N	PHE A	32145.712	-10.382	-0.683	1.00	0.00	N
ATOM	407	CA	PHE A	32146.298	-9.990	0.593	1.00	0.00	C
ATOM	408	C	PHE A	32145.431	-8.947	1.292	1.00	0.00	C
ATOM	409	O	PHE A	32144.494	-8.408	0.703	1.00	0.00	O
ATOM	410	CB	PHE A	32147.709	-9.437	0.382	1.00	0.00	C
ATOM	411	CG	PHE A	32147.801	-8.437	-0.735	1.00	0.00	C
ATOM	412	CD1	PHE A	32148.541	-8.716	-1.873	1.00	0.00	C
ATOM	413	CD2	PHE A	32147.149	-7.218	-0.646	1.00	0.00	C
ATOM	414	CE1	PHE A	32148.628	-7.799	-2.902	1.00	0.00	C
ATOM	415	CE2	PHE A	32147.233	-6.295	-1.672	1.00	0.00	C
ATOM	416	CZ	PHE A	32147.973	-6.586	-2.801	1.00	0.00	C
ATOM	417	H	PHE A	32145.734	-9.751	-1.433	1.00	0.00	H
ATOM	418	HA	PHE A	32146.355	-10.870	1.216	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.038	-8.952	1.289	1.00	0.00	H

ATOM	420	2HB	PHE A	32148.377	-10.254	0.155	1.00	0.00	H
ATOM	421	HD1	PHE A	32149.052	-9.664	-1.952	1.00	0.00	H
ATOM	422	HD2	PHE A	32146.571	-6.989	0.237	1.00	0.00	H
ATOM	423	HE1	PHE A	32149.208	-8.027	-3.784	1.00	0.00	H
ATOM	424	HE2	PHE A	32146.719	-5.348	-1.590	1.00	0.00	H
ATOM	425	HZ	PHE A	32148.039	-5.867	-3.604	1.00	0.00	H
ATOM	426	N	TYR A	33145.750	-8.668	2.552	1.00	0.00	N
ATOM	427	CA	TYR A	33145.000	-7.690	3.332	1.00	0.00	C
ATOM	428	C	TYR A	33145.940	-6.694	4.004	1.00	0.00	C
ATOM	429	O	TYR A	33146.852	-7.081	4.734	1.00	0.00	O
ATOM	430	CB	TYR A	33144.147	-8.395	4.388	1.00	0.00	C
ATOM	431	CG	TYR A	33142.780	-8.803	3.888	1.00	0.00	C
ATOM	432	CD1	TYR A	33141.996	-7.922	3.154	1.00	0.00	C
ATOM	433	CD2	TYR A	33142.273	-10.070	4.151	1.00	0.00	C
ATOM	434	CE1	TYR A	33140.746	-8.291	2.696	1.00	0.00	C
ATOM	435	CE2	TYR A	33141.023	-10.447	3.696	1.00	0.00	C
ATOM	436	CZ	TYR A	33140.264	-9.554	2.970	1.00	0.00	C
ATOM	437	OH	TYR A	33139.019	-9.926	2.514	1.00	0.00	O
ATOM	438	H	TYR A	33146.508	-9.131	2.967	1.00	0.00	H
ATOM	439	HA	TYR A	33144.351	-7.155	2.655	1.00	0.00	H
ATOM	440	1HB	TYR A	33144.659	-9.288	4.717	1.00	0.00	H
ATOM	441	2HB	TYR A	33144.010	-7.734	5.230	1.00	0.00	H
ATOM	442	HD1	TYR A	33142.376	-6.934	2.941	1.00	0.00	H
ATOM	443	HD2	TYR A	33142.869	-10.766	4.721	1.00	0.00	H
ATOM	444	HE1	TYR A	33140.152	-7.592	2.126	1.00	0.00	H
ATOM	445	HE2	TYR A	33140.646	-11.436	3.910	1.00	0.00	H
ATOM	446	HH	TYR A	33139.088	-10.756	2.037	1.00	0.00	H
ATOM	447	N	GLY A	34145.710	-5.410	3.751	1.00	0.00	N
ATOM	448	CA	GLY A	34146.544	-4.378	4.337	1.00	0.00	C
ATOM	449	C	GLY A	34145.757	-3.138	4.711	1.00	0.00	C
ATOM	450	O	GLY A	34144.578	-3.019	4.378	1.00	0.00	O

ATOM	451	H	GLY A	34144.969	-5.161	3.160	1.00	0.00	H
ATOM	452	1HA	GLY A	34147.016	-4.774	5.225	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.312	-4.103	3.628	1.00	0.00	H
ATOM	454	N	VAL A	35146.409	-2.212	5.406	1.00	0.00	N
ATOM	455	CA	VAL A	35145.764	-0.974	5.827	1.00	0.00	C
ATOM	456	C	VAL A	35146.453	0.240	5.212	1.00	0.00	C
ATOM	457	O	VAL A	35147.668	0.241	5.013	1.00	0.00	O
ATOM	458	CB	VAL A	35145.763	-0.835	7.362	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.187	-0.811	7.901	1.00	0.00	C
ATOM	460	CG2	VAL A	35145.001	0.411	7.788	1.00	0.00	C
ATOM	461	H	VAL A	35147.348	-2.365	5.642	1.00	0.00	H
ATOM	462	HA	VAL A	35144.738	-1.002	5.489	1.00	0.00	H
ATOM	463	HB	VAL A	35145.262	-1.697	7.781	1.00	0.00	H
ATOM	464	1HG1	VAL A	35147.865	-0.519	7.113	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.453	-1.795	8.258	1.00	0.00	H
ATOM	466	3HG1	VAL A	35147.252	-0.103	8.714	1.00	0.00	H
ATOM	467	1HG2	VAL A	35145.141	0.574	8.847	1.00	0.00	H
ATOM	468	2HG2	VAL A	35143.950	0.278	7.581	1.00	0.00	H
ATOM	469	3HG2	VAL A	35145.372	1.265	7.241	1.00	0.00	H
ATOM	470	N	ILE A	36145.670	1.271	4.913	1.00	0.00	N
ATOM	471	CA	ILE A	36146.207	2.491	4.322	1.00	0.00	C
ATOM	472	C	ILE A	36147.127	3.214	5.300	1.00	0.00	C
ATOM	473	O	ILE A	36146.803	3.363	6.478	1.00	0.00	O
ATOM	474	CB	ILE A	36145.080	3.449	3.888	1.00	0.00	C
ATOM	475	CG1	ILE A	36144.064	2.715	3.011	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.658	4.648	3.147	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.904	3.583	2.573	1.00	0.00	C
ATOM	478	H	ILE A	36144.709	1.210	5.097	1.00	0.00	H
ATOM	479	HA	ILE A	36146.775	2.215	3.445	1.00	0.00	H
ATOM	480	HB	ILE A	36144.584	3.811	4.775	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.560	2.354	2.122	1.00	0.00	H

ATOM	482	2HG1	ILE A	36143.663	1.876	3.560	1.00	0.00	H
ATOM	483	1HG2	ILE A	36146.620	4.385	2.734	1.00	0.00	H
ATOM	484	2HG2	ILE A	36145.776	5.472	3.835	1.00	0.00	H
ATOM	485	3HG2	ILE A	36144.989	4.936	2.351	1.00	0.00	H
ATOM	486	1HD1	ILE A	36142.384	3.954	3.443	1.00	0.00	H
ATOM	487	2HD1	ILE A	36142.225	2.999	1.970	1.00	0.00	H
ATOM	488	3HD1	ILE A	36143.276	4.415	1.994	1.00	0.00	H
ATOM	489	N	ARG A	37148.276	3.661	4.804	1.00	0.00	N
ATOM	490	CA	ARG A	37149.245	4.367	5.633	1.00	0.00	C
ATOM	491	C	ARG A	37149.477	5.782	5.116	1.00	0.00	C
ATOM	492	O	ARG A	37149.185	6.761	5.804	1.00	0.00	O
ATOM	493	CB	ARG A	37150.569	3.602	5.672	1.00	0.00	C
ATOM	494	CG	ARG A	37150.404	2.115	5.937	1.00	0.00	C
ATOM	495	CD	ARG A	37150.291	1.823	7.424	1.00	0.00	C
ATOM	496	NE	ARG A	37149.079	2.397	8.006	1.00	0.00	N
ATOM	497	CZ	ARG A	37148.908	2.602	9.309	1.00	0.00	C
ATOM	498	NH1	ARG A	37149.866	2.280	10.170	1.00	0.00	N
ATOM	499	NH2	ARG A	37147.775	3.129	9.754	1.00	0.00	N
ATOM	500	H	ARG A	37148.478	3.510	3.857	1.00	0.00	H
ATOM	501	HA	ARG A	37148.844	4.424	6.635	1.00	0.00	H
ATOM	502	1HB	ARG A	37151.068	3.724	4.723	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.188	4.018	6.452	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.508	1.768	5.443	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.261	1.592	5.540	1.00	0.00	H
ATOM	506	1HD	ARG A	37150.274	0.753	7.568	1.00	0.00	H
ATOM	507	2HD	ARG A	37151.152	2.240	7.926	1.00	0.00	H
ATOM	508	HE	ARG A	37148.356	2.643	7.392	1.00	0.00	H
ATOM	509	1HH1	ARG A	37150.722	1.882	9.843	1.00	0.00	H
ATOM	510	2HH1	ARG A	37149.730	2.437	11.149	1.00	0.00	H
ATOM	511	1HH2	ARG A	37147.050	3.372	9.109	1.00	0.00	H
ATOM	512	2HH2	ARG A	37147.646	3.282	10.734	1.00	0.00	H

ATOM	513	N	TRP A	38150.004	5.886	3.900	1.00	0.00	N
ATOM	514	CA	TRP A	38150.274	7.185	3.294	1.00	0.00	C
ATOM	515	C	TRP A	38149.557	7.323	1.954	1.00	0.00	C
ATOM	516	O	TRP A	38149.618	6.430	1.110	1.00	0.00	O
ATOM	517	CB	TRP A	38151.783	7.382	3.104	1.00	0.00	C
ATOM	518	CG	TRP A	38152.128	8.579	2.267	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.387	9.844	2.710	1.00	0.00	C
ATOM	520	CD2	TRP A	38152.247	8.620	0.840	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.659	10.670	1.646	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.579	9.941	0.486	1.00	0.00	C
ATOM	523	CE3	TRP A	38152.104	7.668	-0.174	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.771	10.333	-0.836	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.296	8.057	-1.486	1.00	0.00	C
ATOM	526	CH2	TRP A	38152.625	9.380	-1.807	1.00	0.00	C
ATOM	527	H	TRP A	38150.216	5.071	3.400	1.00	0.00	H
ATOM	528	HA	TRP A	38149.904	7.945	3.964	1.00	0.00	H
ATOM	529	1HB	TRP A	38152.247	7.508	4.071	1.00	0.00	H
ATOM	530	2HB	TRP A	38152.195	6.507	2.623	1.00	0.00	H
ATOM	531	HD1	TRP A	38152.376	10.139	3.748	1.00	0.00	H
ATOM	532	HE1	TRP A	38152.875	11.623	1.706	1.00	0.00	H
ATOM	533	HE3	TRP A	38151.850	6.644	0.055	1.00	0.00	H
ATOM	534	HZ2	TRP A	38153.022	11.349	-1.102	1.00	0.00	H
ATOM	535	HZ3	TRP A	38152.189	7.335	-2.281	1.00	0.00	H
ATOM	536	HH2	TRP A	38152.765	9.638	-2.847	1.00	0.00	H
ATOM	537	N	ILE A	39148.889	8.456	1.765	1.00	0.00	N
ATOM	538	CA	ILE A	39148.169	8.727	0.528	1.00	0.00	C
ATOM	539	C	ILE A	39148.631	10.044	-0.083	1.00	0.00	C
ATOM	540	O	ILE A	39148.297	11.119	0.414	1.00	0.00	O
ATOM	541	CB	ILE A	39146.647	8.785	0.762	1.00	0.00	C
ATOM	542	CG1	ILE A	39146.181	7.562	1.554	1.00	0.00	C
ATOM	543	CG2	ILE A	39145.911	8.876	-0.567	1.00	0.00	C

ATOM	544	CD1	ILE A	39144.818	7.736	2.187	1.00	0.00	C
ATOM	545	H	ILE A	39148.887	9.132	2.475	1.00	0.00	H
ATOM	546	HA	ILE A	39148.378	7.924	-0.165	1.00	0.00	H
ATOM	547	HB	ILE A	39146.427	9.678	1.328	1.00	0.00	H
ATOM	548	1HG1	ILE A	39146.134	6.710	0.893	1.00	0.00	H
ATOM	549	2HG1	ILE A	39146.891	7.360	2.342	1.00	0.00	H
ATOM	550	1HG2	ILE A	39146.058	9.857	-0.994	1.00	0.00	H
ATOM	551	2HG2	ILE A	39144.856	8.708	-0.405	1.00	0.00	H
ATOM	552	3HG2	ILE A	39146.295	8.127	-1.243	1.00	0.00	H
ATOM	553	1HD1	ILE A	39144.725	8.742	2.569	1.00	0.00	H
ATOM	554	2HD1	ILE A	39144.706	7.032	2.998	1.00	0.00	H
ATOM	555	3HD1	ILE A	39144.052	7.559	1.446	1.00	0.00	H
ATOM	556	N	GLY A	40149.407	9.955	-1.159	1.00	0.00	N
ATOM	557	CA	GLY A	40149.906	11.152	-1.808	1.00	0.00	C
ATOM	558	C	GLY A	40150.448	10.884	-3.197	1.00	0.00	C
ATOM	559	O	GLY A	40150.274	9.794	-3.742	1.00	0.00	O
ATOM	560	H	GLY A	40149.646	9.072	-1.510	1.00	0.00	H
ATOM	561	1HA	GLY A	40149.104	11.870	-1.880	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.693	11.572	-1.202	1.00	0.00	H
ATOM	563	N	GLN A	41151.109	11.884	-3.769	1.00	0.00	N
ATOM	564	CA	GLN A	41151.683	11.763	-5.103	1.00	0.00	C
ATOM	565	C	GLN A	41153.162	12.148	-5.090	1.00	0.00	C
ATOM	566	O	GLN A	41153.506	13.302	-4.830	1.00	0.00	O
ATOM	567	CB	GLN A	41150.919	12.654	-6.082	1.00	0.00	C
ATOM	568	CG	GLN A	41149.411	12.488	-6.004	1.00	0.00	C
ATOM	569	CD	GLN A	41148.672	13.804	-6.138	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.635	14.607	-5.206	1.00	0.00	O
ATOM	571	NE2	GLN A	41148.077	14.033	-7.304	1.00	0.00	N
ATOM	572	H	GLN A	41151.213	12.728	-3.282	1.00	0.00	H
ATOM	573	HA	GLN A	41151.588	10.735	-5.415	1.00	0.00	H
ATOM	574	1HB	GLN A	41151.157	13.685	-5.871	1.00	0.00	H

ATOM	575	2HB	GLN A	41151.235	12.418	-7.086	1.00	0.00	H
ATOM	576	1HG	GLN A	41149.090	11.832	-6.799	1.00	0.00	H
ATOM	577	2HG	GLN A	41149.158	12.046	-5.051	1.00	0.00	H
ATOM	578	1HE2	GLN A	41148.148	13.349	-8.000	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.594	14.878	-7.418	1.00	0.00	H
ATOM	580	N	PRO A	42154.062	11.187	-5.368	1.00	0.00	N
ATOM	581	CA	PRO A	42155.507	11.441	-5.381	1.00	0.00	C
ATOM	582	C	PRO A	42155.892	12.546	-6.360	1.00	0.00	C
ATOM	583	O	PRO A	42155.139	12.859	-7.283	1.00	0.00	O
ATOM	584	CB	PRO A	42156.107	10.102	-5.822	1.00	0.00	C
ATOM	585	CG	PRO A	42155.065	9.090	-5.491	1.00	0.00	C
ATOM	586	CD	PRO A	42153.749	9.784	-5.689	1.00	0.00	C
ATOM	587	HA	PRO A	42155.871	11.695	-4.396	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.311	10.129	-6.882	1.00	0.00	H
ATOM	589	2HB	PRO A	42157.022	9.918	-5.279	1.00	0.00	H
ATOM	590	1HG	PRO A	42155.148	8.245	-6.157	1.00	0.00	H
ATOM	591	2HG	PRO A	42155.173	8.774	-4.464	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.419	9.686	-6.713	1.00	0.00	H
ATOM	593	2HD	PRO A	42153.007	9.389	-5.010	1.00	0.00	H
ATOM	594	N	PRO A	43157.076	13.153	-6.172	1.00	0.00	N
ATOM	595	CA	PRO A	43157.559	14.227	-7.043	1.00	0.00	C
ATOM	596	C	PRO A	43157.974	13.715	-8.417	1.00	0.00	C
ATOM	597	O	PRO A	43159.140	13.389	-8.642	1.00	0.00	O
ATOM	598	CB	PRO A	43158.771	14.776	-6.291	1.00	0.00	C
ATOM	599	CG	PRO A	43159.256	13.633	-5.468	1.00	0.00	C
ATOM	600	CD	PRO A	43158.034	12.839	-5.096	1.00	0.00	C
ATOM	601	HA	PRO A	43156.820	15.006	-7.159	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.519	15.100	-7.000	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.469	15.608	-5.673	1.00	0.00	H
ATOM	604	1HG	PRO A	43159.935	13.027	-6.048	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.747	14.004	-4.580	1.00	0.00	H

ATOM	606	1HD	PRO A	43158.262	11.783	-5.079	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.654	13.158	-4.137	1.00	0.00	H
ATOM	608	N	GLY A	44157.015	13.646	-9.332	1.00	0.00	N
ATOM	609	CA	GLY A	44157.304	13.172	-10.672	1.00	0.00	C
ATOM	610	C	GLY A	44156.071	12.647	-11.380	1.00	0.00	C
ATOM	611	O	GLY A	44155.783	13.041	-12.510	1.00	0.00	O
ATOM	612	H	GLY A	44156.104	13.919	-9.097	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.716	13.985	-11.248	1.00	0.00	H
ATOM	614	2HA	GLY A	44158.035	12.380	-10.612	1.00	0.00	H
ATOM	615	N	LEU A	45155.344	11.756	-10.716	1.00	0.00	N
ATOM	616	CA	LEU A	45154.136	11.177	-11.291	1.00	0.00	C
ATOM	617	C	LEU A	45152.926	11.462	-10.410	1.00	0.00	C
ATOM	618	O	LEU A	45152.826	10.948	-9.296	1.00	0.00	O
ATOM	619	CB	LEU A	45154.307	9.668	-11.472	1.00	0.00	C
ATOM	620	CG	LEU A	45154.840	8.927	-10.245	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.467	7.451	-10.307	1.00	0.00	C
ATOM	622	CD2	LEU A	45156.350	9.096	-10.132	1.00	0.00	C
ATOM	623	H	LEU A	45155.624	11.483	-9.816	1.00	0.00	H
ATOM	624	HA	LEU A	45153.977	11.632	-12.258	1.00	0.00	H
ATOM	625	1HB	LEU A	45153.346	9.248	-11.733	1.00	0.00	H
ATOM	626	2HB	LEU A	45154.989	9.500	-12.292	1.00	0.00	H
ATOM	627	HG	LEU A	45154.389	9.345	-9.357	1.00	0.00	H
ATOM	628	1HD1	LEU A	45153.870	7.266	-11.188	1.00	0.00	H
ATOM	629	2HD1	LEU A	45153.901	7.186	-9.427	1.00	0.00	H
ATOM	630	3HD1	LEU A	45155.365	6.852	-10.350	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.683	9.843	-10.837	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.836	8.157	-10.349	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.602	9.408	-9.130	1.00	0.00	H
ATOM	634	N	ASN A	46152.008	12.282	-10.911	1.00	0.00	N
ATOM	635	CA	ASN A	46150.810	12.622	-10.156	1.00	0.00	C
ATOM	636	C	ASN A	46149.846	11.443	-10.124	1.00	0.00	C

ATOM	637	O	ASN A	46149.218	11.110	-11.130	1.00	0.00	O
ATOM	638	CB	ASN A	46150.123	13.843	-10.773	1.00	0.00	C
ATOM	639	CG	ASN A	46149.380	14.670	-9.743	1.00	0.00	C
ATOM	640	OD1	ASN A	46149.955	15.100	-8.743	1.00	0.00	O
ATOM	641	ND2	ASN A	46148.095	14.900	-9.984	1.00	0.00	N
ATOM	642	H	ASN A	46152.139	12.664	-11.804	1.00	0.00	H
ATOM	643	HA	ASN A	46151.108	12.858	-9.146	1.00	0.00	H
ATOM	644	1HB	ASN A	46150.868	14.469	-11.241	1.00	0.00	H
ATOM	645	2HB	ASN A	46149.417	13.511	-11.519	1.00	0.00	H
ATOM	646	1HD2	ASN A	46147.703	14.526	-10.801	1.00	0.00	H
ATOM	647	2HD2	ASN A	46147.590	15.433	-9.335	1.00	0.00	H
ATOM	648	N	GLU A	47149.734	10.813	-8.961	1.00	0.00	N
ATOM	649	CA	GLU A	47148.848	9.668	-8.790	1.00	0.00	C
ATOM	650	C	GLU A	47148.661	9.345	-7.312	1.00	0.00	C
ATOM	651	O	GLU A	47149.627	9.062	-6.604	1.00	0.00	O
ATOM	652	CB	GLU A	47149.405	8.446	-9.525	1.00	0.00	C
ATOM	653	CG	GLU A	47150.918	8.314	-9.439	1.00	0.00	C
ATOM	654	CD	GLU A	47151.479	7.357	-10.472	1.00	0.00	C
ATOM	655	OE1	GLU A	47151.460	7.702	-11.672	1.00	0.00	O
ATOM	656	OE2	GLU A	47151.937	6.263	-10.082	1.00	0.00	O
ATOM	657	H	GLU A	47150.262	11.125	-8.197	1.00	0.00	H
ATOM	658	HA	GLU A	47147.889	9.926	-9.214	1.00	0.00	H
ATOM	659	1HB	GLU A	47148.964	7.555	-9.103	1.00	0.00	H
ATOM	660	2HB	GLU A	47149.131	8.513	-10.568	1.00	0.00	H
ATOM	661	1HG	GLU A	47151.360	9.285	-9.592	1.00	0.00	H
ATOM	662	2HG	GLU A	47151.180	7.952	-8.455	1.00	0.00	H
ATOM	663	N	VAL A	48147.416	9.382	-6.851	1.00	0.00	N
ATOM	664	CA	VAL A	48147.116	9.085	-5.457	1.00	0.00	C
ATOM	665	C	VAL A	48147.475	7.642	-5.124	1.00	0.00	C
ATOM	666	O	VAL A	48146.726	6.717	-5.438	1.00	0.00	O
ATOM	667	CB	VAL A	48145.629	9.320	-5.137	1.00	0.00	C

ATOM	668	CG1 VAL A	48145.378	9.198	-3.642	1.00	0.00	C
ATOM	669	CG2 VAL A	48145.180	10.679	-5.652	1.00	0.00	C
ATOM	670	H VAL A	48146.684	9.609	-7.462	1.00	0.00	H
ATOM	671	HA VAL A	48147.709	9.745	-4.840	1.00	0.00	H
ATOM	672	HB VAL A	48145.048	8.560	-5.639	1.00	0.00	H
ATOM	673	1HG1 VAL A	48144.420	9.634	-3.401	1.00	0.00	H
ATOM	674	2HG1 VAL A	48146.156	9.719	-3.103	1.00	0.00	H
ATOM	675	3HG1 VAL A	48145.381	8.155	-3.360	1.00	0.00	H
ATOM	676	1HG2 VAL A	48144.227	10.934	-5.213	1.00	0.00	H
ATOM	677	2HG2 VAL A	48145.083	10.644	-6.726	1.00	0.00	H
ATOM	678	3HG2 VAL A	48145.912	11.426	-5.381	1.00	0.00	H
ATOM	679	N LEU A	49148.629	7.455	-4.492	1.00	0.00	N
ATOM	680	CA LEU A	49149.088	6.123	-4.122	1.00	0.00	C
ATOM	681	C LEU A	49148.955	5.904	-2.621	1.00	0.00	C
ATOM	682	O LEU A	49149.633	6.554	-1.825	1.00	0.00	O
ATOM	683	CB LEU A	49150.544	5.923	-4.550	1.00	0.00	C
ATOM	684	CG LEU A	49150.801	6.069	-6.051	1.00	0.00	C
ATOM	685	CD1 LEU A	49152.275	6.335	-6.317	1.00	0.00	C
ATOM	686	CD2 LEU A	49150.342	4.822	-6.793	1.00	0.00	C
ATOM	687	H LEU A	49149.185	8.231	-4.270	1.00	0.00	H
ATOM	688	HA LEU A	49148.470	5.404	-4.636	1.00	0.00	H
ATOM	689	1HB LEU A	49151.153	6.649	-4.030	1.00	0.00	H
ATOM	690	2HB LEU A	49150.854	4.935	-4.249	1.00	0.00	H
ATOM	691	HG LEU A	49150.237	6.910	-6.427	1.00	0.00	H
ATOM	692	1HD1 LEU A	49152.707	6.843	-5.468	1.00	0.00	H
ATOM	693	2HD1 LEU A	49152.376	6.954	-7.197	1.00	0.00	H
ATOM	694	3HD1 LEU A	49152.788	5.398	-6.475	1.00	0.00	H
ATOM	695	1HD2 LEU A	49151.185	4.165	-6.951	1.00	0.00	H
ATOM	696	2HD2 LEU A	49149.921	5.104	-7.746	1.00	0.00	H
ATOM	697	3HD2 LEU A	49149.593	4.311	-6.206	1.00	0.00	H
ATOM	698	N ALAA	50148.077	4.984	-2.240	1.00	0.00	N

ATOM	699	CA	ALAA	50147.856	4.682	-0.832	1.00	0.00	C
ATOM	700	C	ALAA	50148.756	3.542	-0.369	1.00	0.00	C
ATOM	701	O	ALAA	50148.624	2.408	-0.830	1.00	0.00	O
ATOM	702	CB	ALAA	50146.395	4.337	-0.589	1.00	0.00	C
ATOM	703	H	ALAA	50147.565	4.497	-2.920	1.00	0.00	H
ATOM	704	HA	ALAA	50148.093	5.570	-0.265	1.00	0.00	H
ATOM	705	1HB	ALAA	50145.792	4.740	-1.389	1.00	0.00	H
ATOM	706	2HB	ALAA	50146.077	4.763	0.352	1.00	0.00	H
ATOM	707	3HB	ALAA	50146.278	3.265	-0.556	1.00	0.00	H
ATOM	708	N	GLYA	51149.671	3.850	0.545	1.00	0.00	N
ATOM	709	CA	GLYA	51150.578	2.839	1.056	1.00	0.00	C
ATOM	710	C	GLYA	51149.878	1.821	1.933	1.00	0.00	C
ATOM	711	O	GLYA	51149.350	2.162	2.991	1.00	0.00	O
ATOM	712	H	GLYA	51149.730	4.770	0.876	1.00	0.00	H
ATOM	713	1HA	GLYA	51151.034	2.326	0.221	1.00	0.00	H
ATOM	714	2HA	GLYA	51151.352	3.324	1.631	1.00	0.00	H
ATOM	715	N	LEUA	52149.873	0.567	1.494	1.00	0.00	N
ATOM	716	CA	LEUA	52149.232	-0.504	2.247	1.00	0.00	C
ATOM	717	C	LEUA	52150.270	-1.379	2.943	1.00	0.00	C
ATOM	718	O	LEUA	52151.305	-1.710	2.364	1.00	0.00	O
ATOM	719	CB	LEUA	52148.365	-1.360	1.322	1.00	0.00	C
ATOM	720	CG	LEUA	52147.140	-0.650	0.742	1.00	0.00	C
ATOM	721	CD1	LEUA	52146.534	-1.469	-0.388	1.00	0.00	C
ATOM	722	CD2	LEUA	52146.108	-0.394	1.830	1.00	0.00	C
ATOM	723	H	LEUA	52150.311	0.356	0.643	1.00	0.00	H
ATOM	724	HA	LEUA	52148.601	-0.050	2.997	1.00	0.00	H
ATOM	725	1HB	LEUA	52148.980	-1.701	0.501	1.00	0.00	H
ATOM	726	2HB	LEUA	52148.024	-2.221	1.876	1.00	0.00	H
ATOM	727	HG	LEUA	52147.444	0.305	0.336	1.00	0.00	H
ATOM	728	1HD1	LEUA	52145.929	-0.828	-1.012	1.00	0.00	H
ATOM	729	2HD1	LEUA	52145.918	-2.253	0.027	1.00	0.00	H

ATOM	730	3HD1	LEU A	52147.324	-1.906	-0.979	1.00	0.00	H
ATOM	731	1HD2	LEU A	52146.587	0.078	2.675	1.00	0.00	H
ATOM	732	2HD2	LEU A	52145.673	-1.332	2.141	1.00	0.00	H
ATOM	733	3HD2	LEU A	52145.334	0.254	1.447	1.00	0.00	H
ATOM	734	N	GLU A	53149.985	-1.750	4.187	1.00	0.00	N
ATOM	735	CA	GLU A	53150.892	-2.587	4.962	1.00	0.00	C
ATOM	736	C	GLU A	53150.367	-4.015	5.058	1.00	0.00	C
ATOM	737	O	GLU A	53149.392	-4.282	5.759	1.00	0.00	O
ATOM	738	CB	GLU A	53151.084	-2.006	6.365	1.00	0.00	C
ATOM	739	CG	GLU A	53152.053	-2.799	7.225	1.00	0.00	C
ATOM	740	CD	GLU A	53151.694	-2.758	8.697	1.00	0.00	C
ATOM	741	OE1	GLU A	53152.597	-2.965	9.535	1.00	0.00	O
ATOM	742	OE2	GLU A	53150.510	-2.518	9.013	1.00	0.00	O
ATOM	743	H	GLU A	53149.143	-1.454	4.594	1.00	0.00	H
ATOM	744	HA	GLU A	53151.846	-2.599	4.455	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.457	-0.996	6.276	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.127	-1.982	6.865	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.046	-3.828	6.898	1.00	0.00	H
ATOM	748	2HG	GLU A	53153.045	-2.389	7.100	1.00	0.00	H
ATOM	749	N	LEU A	54151.021	-4.929	4.348	1.00	0.00	N
ATOM	750	CA	LEU A	54150.618	-6.331	4.353	1.00	0.00	C
ATOM	751	C	LEU A	54150.983	-6.997	5.676	1.00	0.00	C
ATOM	752	O	LEU A	54152.069	-6.783	6.212	1.00	0.00	O
ATOM	753	CB	LEU A	54151.282	-7.078	3.194	1.00	0.00	C
ATOM	754	CG	LEU A	54151.184	-6.382	1.835	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.187	-6.976	0.859	1.00	0.00	C
ATOM	756	CD2	LEU A	54149.771	-6.491	1.283	1.00	0.00	C
ATOM	757	H	LEU A	54151.791	-4.655	3.808	1.00	0.00	H
ATOM	758	HA	LEU A	54149.547	-6.369	4.227	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.327	-7.213	3.433	1.00	0.00	H
ATOM	760	2HB	LEU A	54150.821	-8.050	3.109	1.00	0.00	H

ATOM	761	HG	LEU A	54151.417	-5.334	1.957	1.00	0.00	H
ATOM	762	1HD1	LEU A	54151.706	-7.745	0.272	1.00	0.00	H
ATOM	763	2HD1	LEU A	54153.012	-7.406	1.407	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.555	-6.200	0.205	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.795	-6.380	0.209	1.00	0.00	H
ATOM	766	2HD2	LEU A	54149.156	-5.713	1.712	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.359	-7.457	1.536	1.00	0.00	H
ATOM	768	N	GLU A	55150.065	-7.806	6.197	1.00	0.00	N
ATOM	769	CA	GLU A	55150.290	-8.504	7.458	1.00	0.00	C
ATOM	770	C	GLU A	55151.347	-9.593	7.295	1.00	0.00	C
ATOM	771	O	GLU A	55152.090	-9.894	8.229	1.00	0.00	O
ATOM	772	CB	GLU A	55148.983	-9.117	7.965	1.00	0.00	C
ATOM	773	CG	GLU A	55147.843	-8.118	8.067	1.00	0.00	C
ATOM	774	CD	GLU A	55147.017	-8.302	9.326	1.00	0.00	C
ATOM	775	OE1	GLU A	55147.071	-9.401	9.916	1.00	0.00	O
ATOM	776	OE2	GLU A	55146.318	-7.346	9.722	1.00	0.00	O
ATOM	777	H	GLU A	55149.218	-7.937	5.723	1.00	0.00	H
ATOM	778	HA	GLU A	55150.642	-7.782	8.179	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.683	-9.906	7.291	1.00	0.00	H
ATOM	780	2HB	GLU A	55149.154	-9.538	8.945	1.00	0.00	H
ATOM	781	1HG	GLU A	55148.254	-7.120	8.069	1.00	0.00	H
ATOM	782	2HG	GLU A	55147.198	-8.239	7.210	1.00	0.00	H
ATOM	783	N	ASP A	56151.406	-10.179	6.103	1.00	0.00	N
ATOM	784	CA	ASP A	56152.372	-11.234	5.818	1.00	0.00	C
ATOM	785	C	ASP A	56153.664	-10.651	5.256	1.00	0.00	C
ATOM	786	O	ASP A	56153.650	-9.931	4.258	1.00	0.00	O
ATOM	787	CB	ASP A	56151.781	-12.241	4.830	1.00	0.00	C
ATOM	788	CG	ASP A	56150.691	-13.091	5.453	1.00	0.00	C
ATOM	789	OD1	ASP A	56149.769	-13.504	4.718	1.00	0.00	O
ATOM	790	OD2	ASP A	56150.759	-13.342	6.674	1.00	0.00	O
ATOM	791	H	ASP A	56150.786	-9.895	5.399	1.00	0.00	H

ATOM	792	HA	ASP A	56152.593	-11.741	6.745	1.00	0.00	H
ATOM	793	1HB	ASP A	56151.362	-11.708	3.990	1.00	0.00	H
ATOM	794	2HB	ASP A	56152.566	-12.895	4.480	1.00	0.00	H
ATOM	795	N	GLU A	57154.781	-10.966	5.905	1.00	0.00	N
ATOM	796	CA	GLU A	57156.083	-10.474	5.470	1.00	0.00	C
ATOM	797	C	GLU A	57156.427	-10.999	4.080	1.00	0.00	C
ATOM	798	O	GLU A	57156.851	-12.145	3.927	1.00	0.00	O
ATOM	799	CB	GLU A	57157.167	-10.886	6.467	1.00	0.00	C
ATOM	800	CG	GLU A	57157.113	-10.116	7.776	1.00	0.00	C
ATOM	801	CD	GLU A	57157.985	-10.733	8.852	1.00	0.00	C
ATOM	802	OE1	GLU A	57158.567	-9.973	9.653	1.00	0.00	O
ATOM	803	OE2	GLU A	57158.086	-11.977	8.892	1.00	0.00	O
ATOM	804	H	GLU A	57154.728	-11.545	6.694	1.00	0.00	H
ATOM	805	HA	GLU A	57156.033	-9.396	5.431	1.00	0.00	H
ATOM	806	1HB	GLU A	57157.056	-11.937	6.687	1.00	0.00	H
ATOM	807	2HB	GLU A	57158.135	-10.721	6.017	1.00	0.00	H
ATOM	808	1HG	GLU A	57157.448	-9.105	7.599	1.00	0.00	H
ATOM	809	2HG	GLU A	57156.092	-10.099	8.127	1.00	0.00	H
ATOM	810	N	CYS A	58156.242	-10.156	3.070	1.00	0.00	N
ATOM	811	CA	CYS A	58156.533	-10.535	1.693	1.00	0.00	C
ATOM	812	C	CYS A	58157.946	-10.114	1.300	1.00	0.00	C
ATOM	813	O	CYS A	58158.303	-8.939	1.397	1.00	0.00	O
ATOM	814	CB	CYS A	58155.516	-9.904	0.742	1.00	0.00	C
ATOM	815	SG	CYS A	58154.053	-10.924	0.443	1.00	0.00	S
ATOM	816	H	CYS A	58155.901	-9.256	3.256	1.00	0.00	H
ATOM	817	HA	CYS A	58156.460	-11.611	1.623	1.00	0.00	H
ATOM	818	1HB	CYS A	58155.181	-8.965	1.156	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.991	-9.722	-0.212	1.00	0.00	H
ATOM	820	HG	CYS A	58153.934	-10.999	-0.506	1.00	0.00	H
ATOM	821	N	ALA A	59158.744	-11.079	0.855	1.00	0.00	N
ATOM	822	CA	ALA A	59160.117	-10.807	0.448	1.00	0.00	C

ATOM	823	C	ALAA	59160.156	-9.970	-0.826	1.00	0.00	C
ATOM	824	O	ALAA	59159.813	-10.450	-1.907	1.00	0.00	O
ATOM	825	CB	ALAA	59160.876	-12.111	0.249	1.00	0.00	C
ATOM	826	H	ALAA	59158.402	-11.995	0.801	1.00	0.00	H
ATOM	827	HA	ALAA	59160.598	-10.256	1.243	1.00	0.00	H
ATOM	828	1HB	ALAA	59160.889	-12.363	-0.801	1.00	0.00	H
ATOM	829	2HB	ALAA	59160.387	-12.900	0.802	1.00	0.00	H
ATOM	830	3HB	ALAA	59161.889	-11.995	0.605	1.00	0.00	H
ATOM	831	N	GLYA	60160.576	-8.716	-0.692	1.00	0.00	N
ATOM	832	CA	GLYA	60160.651	-7.832	-1.840	1.00	0.00	C
ATOM	833	C	GLYA	60160.053	-6.468	-1.563	1.00	0.00	C
ATOM	834	O	GLYA	60160.466	-5.470	-2.152	1.00	0.00	O
ATOM	835	H	GLYA	60160.836	-8.388	0.194	1.00	0.00	H
ATOM	836	1HA	GLYA	60161.688	-7.708	-2.117	1.00	0.00	H
ATOM	837	2HA	GLYA	60160.122	-8.286	-2.665	1.00	0.00	H
ATOM	838	N	CYSA	61159.074	-6.425	-0.664	1.00	0.00	N
ATOM	839	CA	CYSA	61158.416	-5.173	-0.311	1.00	0.00	C
ATOM	840	C	CYSA	61159.344	-4.284	0.510	1.00	0.00	C
ATOM	841	O	CYSA	61160.455	-4.683	0.860	1.00	0.00	O
ATOM	842	CB	CYSA	61157.132	-5.451	0.472	1.00	0.00	C
ATOM	843	SG	CYSA	61156.021	-6.631	-0.329	1.00	0.00	S
ATOM	844	H	CYSA	61158.788	-7.255	-0.229	1.00	0.00	H
ATOM	845	HA	CYSA	61158.164	-4.661	-1.227	1.00	0.00	H
ATOM	846	1HB	CYSA	61157.389	-5.850	1.442	1.00	0.00	H
ATOM	847	2HB	CYSA	61156.591	-4.525	0.602	1.00	0.00	H
ATOM	848	HG	CYSA	61155.639	-7.189	0.354	1.00	0.00	H
ATOM	849	N	THRA	62158.881	-3.076	0.816	1.00	0.00	N
ATOM	850	CA	THRA	62159.669	-2.129	1.596	1.00	0.00	C
ATOM	851	C	THRA	62159.163	-2.056	3.034	1.00	0.00	C
ATOM	852	O	THRA	62158.177	-2.701	3.389	1.00	0.00	O
ATOM	853	CB	THRA	62159.619	-0.742	0.955	1.00	0.00	C

ATOM	854	OG1 THR A	62158.314	-0.454	0.483	1.00	0.00	O
ATOM	855	CG2 THR A	62160.573	-0.585	-0.208	1.00	0.00	C
ATOM	856	H THR A	62157.987	-2.815	0.509	1.00	0.00	H
ATOM	857	HA THR A	62160.691	-2.476	1.603	1.00	0.00	H
ATOM	858	HB THR A	62159.881	-0.003	1.699	1.00	0.00	H
ATOM	859	HG1 THR A	62157.782	-0.107	1.204	1.00	0.00	H
ATOM	860	1HG2 THR A	62160.889	-1.560	-0.549	1.00	0.00	H
ATOM	861	2HG2 THR A	62161.435	-0.018	0.108	1.00	0.00	H
ATOM	862	3HG2 THR A	62160.076	-0.066	-1.014	1.00	0.00	H
ATOM	863	N ASP A	63159.847	-1.268	3.857	1.00	0.00	N
ATOM	864	CA ASP A	63159.467	-1.109	5.255	1.00	0.00	C
ATOM	865	C ASP A	63158.836	0.257	5.497	1.00	0.00	C
ATOM	866	O ASP A	63158.965	0.829	6.578	1.00	0.00	O
ATOM	867	CB ASP A	63160.689	-1.287	6.160	1.00	0.00	C
ATOM	868	CG ASP A	63161.787	-0.290	5.849	1.00	0.00	C
ATOM	869	OD1 ASP A	63162.647	-0.600	4.998	1.00	0.00	O
ATOM	870	OD2 ASP A	63161.789	0.801	6.458	1.00	0.00	O
ATOM	871	H ASP A	63160.625	-0.779	3.514	1.00	0.00	H
ATOM	872	HA ASP A	63158.743	-1.875	5.490	1.00	0.00	H
ATOM	873	1HB ASP A	63160.388	-1.156	7.188	1.00	0.00	H
ATOM	874	2HB ASP A	63161.083	-2.284	6.029	1.00	0.00	H
ATOM	875	N GLY A	64158.152	0.775	4.482	1.00	0.00	N
ATOM	876	CA GLY A	64157.511	2.071	4.603	1.00	0.00	C
ATOM	877	C GLY A	64158.215	3.146	3.799	1.00	0.00	C
ATOM	878	O GLY A	64158.375	4.274	4.263	1.00	0.00	O
ATOM	879	H GLY A	64158.083	0.274	3.642	1.00	0.00	H
ATOM	880	1HA GLY A	64156.490	1.989	4.257	1.00	0.00	H
ATOM	881	2HA GLY A	64157.505	2.362	5.643	1.00	0.00	H
ATOM	882	N THR A	65158.638	2.795	2.589	1.00	0.00	N
ATOM	883	CA THR A	65159.329	3.737	1.717	1.00	0.00	C
ATOM	884	C THR A	65158.943	3.515	0.260	1.00	0.00	C

ATOM	885	O	THR A	65159.044	2.402	-0.257	1.00	0.00	O
ATOM	886	CB	THR A	65160.844	3.600	1.884	1.00	0.00	C
ATOM	887	OG1	THR A	65161.250	2.258	1.686	1.00	0.00	O
ATOM	888	CG2	THR A	65161.338	4.034	3.246	1.00	0.00	C
ATOM	889	H	THR A	65158.481	1.880	2.275	1.00	0.00	H
ATOM	890	HA	THR A	65159.034	4.734	2.008	1.00	0.00	H
ATOM	891	HB	THR A	65161.334	4.215	1.143	1.00	0.00	H
ATOM	892	HG1	THR A	65160.827	1.907	0.900	1.00	0.00	H
ATOM	893	1HG2	THR A	65160.554	4.569	3.761	1.00	0.00	H
ATOM	894	2HG2	THR A	65162.197	4.679	3.129	1.00	0.00	H
ATOM	895	3HG2	THR A	65161.619	3.164	3.822	1.00	0.00	H
ATOM	896	N	PHE A	66158.503	4.581	-0.399	1.00	0.00	N
ATOM	897	CA	PHE A	66158.101	4.504	-1.799	1.00	0.00	C
ATOM	898	C	PHE A	66159.101	5.230	-2.694	1.00	0.00	C
ATOM	899	O	PHE A	66159.198	6.457	-2.665	1.00	0.00	O
ATOM	900	CB	PHE A	66156.705	5.101	-1.985	1.00	0.00	C
ATOM	901	CG	PHE A	66156.083	4.770	-3.311	1.00	0.00	C
ATOM	902	CD1	PHE A	66155.689	5.778	-4.177	1.00	0.00	C
ATOM	903	CD2	PHE A	66155.893	3.452	-3.692	1.00	0.00	C
ATOM	904	CE1	PHE A	66155.116	5.476	-5.398	1.00	0.00	C
ATOM	905	CE2	PHE A	66155.321	3.144	-4.912	1.00	0.00	C
ATOM	906	CZ	PHE A	66154.932	4.158	-5.766	1.00	0.00	C
ATOM	907	H	PHE A	66158.446	5.442	0.066	1.00	0.00	H
ATOM	908	HA	PHE A	66158.077	3.461	-2.080	1.00	0.00	H
ATOM	909	1HB	PHE A	66156.055	4.726	-1.211	1.00	0.00	H
ATOM	910	2HB	PHE A	66156.768	6.176	-1.906	1.00	0.00	H
ATOM	911	HD1	PHE A	66155.833	6.809	-3.891	1.00	0.00	H
ATOM	912	HD2	PHE A	66156.196	2.659	-3.026	1.00	0.00	H
ATOM	913	HE1	PHE A	66154.813	6.271	-6.064	1.00	0.00	H
ATOM	914	HE2	PHE A	66155.178	2.112	-5.197	1.00	0.00	H
ATOM	915	HZ	PHE A	66154.485	3.919	-6.720	1.00	0.00	H

ATOM	916	N	ARG A	67159.843	4.465	-3.487	1.00	0.00	N
ATOM	917	CA	ARG A	67160.835	5.035	-4.390	1.00	0.00	C
ATOM	918	C	ARG A	67161.898	5.807	-3.615	1.00	0.00	C
ATOM	919	O	ARG A	67162.370	6.853	-4.062	1.00	0.00	O
ATOM	920	CB	ARG A	67160.158	5.956	-5.408	1.00	0.00	C
ATOM	921	CG	ARG A	67158.907	5.359	-6.030	1.00	0.00	C
ATOM	922	CD	ARG A	67158.567	6.031	-7.350	1.00	0.00	C
ATOM	923	NE	ARG A	67157.502	5.330	-8.063	1.00	0.00	N
ATOM	924	CZ	ARG A	67157.666	4.161	-8.677	1.00	0.00	C
ATOM	925	NH1	ARG A	67158.849	3.558	-8.668	1.00	0.00	N
ATOM	926	NH2	ARG A	67156.644	3.591	-9.302	1.00	0.00	N
ATOM	927	H	ARG A	67159.719	3.493	-3.465	1.00	0.00	H
ATOM	928	HA	ARG A	67161.311	4.220	-4.917	1.00	0.00	H
ATOM	929	1HB	ARG A	67159.886	6.877	-4.916	1.00	0.00	H
ATOM	930	2HB	ARG A	67160.859	6.174	-6.199	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.071	4.306	-6.206	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.080	5.488	-5.346	1.00	0.00	H
ATOM	933	1HD	ARG A	67158.248	7.043	-7.152	1.00	0.00	H
ATOM	934	2HD	ARG A	67159.452	6.048	-7.969	1.00	0.00	H
ATOM	935	HE	ARG A	67156.618	5.753	-8.086	1.00	0.00	H
ATOM	936	1HH1	ARG A	67159.623	3.982	-8.199	1.00	0.00	H
ATOM	937	2HH1	ARG A	67158.966	2.679	-9.131	1.00	0.00	H
ATOM	938	1HH2	ARG A	67155.752	4.040	-9.312	1.00	0.00	H
ATOM	939	2HH2	ARG A	67156.767	2.712	-9.763	1.00	0.00	H
ATOM	940	N	GLY A	68162.269	5.284	-2.451	1.00	0.00	N
ATOM	941	CA	GLY A	68163.274	5.938	-1.632	1.00	0.00	C
ATOM	942	C	GLY A	68162.724	7.136	-0.883	1.00	0.00	C
ATOM	943	O	GLY A	68163.458	8.076	-0.580	1.00	0.00	O
ATOM	944	H	GLY A	68161.859	4.449	-2.145	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.658	5.225	-0.917	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.084	6.265	-2.268	1.00	0.00	H

ATOM	947	N	THR A	69161.430	7.102	-0.584	1.00	0.00	N
ATOM	948	CA	THR A	69160.783	8.193	0.133	1.00	0.00	C
ATOM	949	C	THR A	69159.899	7.658	1.256	1.00	0.00	C
ATOM	950	O	THR A	69158.746	7.291	1.030	1.00	0.00	O
ATOM	951	CB	THR A	69159.948	9.040	-0.828	1.00	0.00	C
ATOM	952	OG1	THR A	69160.661	9.285	-2.028	1.00	0.00	O
ATOM	953	CG2	THR A	69159.546	10.380	-0.251	1.00	0.00	C
ATOM	954	H	THR A	69160.897	6.324	-0.852	1.00	0.00	H
ATOM	955	HA	THR A	69161.556	8.811	0.565	1.00	0.00	H
ATOM	956	HB	THR A	69159.044	8.501	-1.074	1.00	0.00	H
ATOM	957	HG1	THR A	69160.425	8.623	-2.681	1.00	0.00	H
ATOM	958	1HG2	THR A	69159.640	11.143	-1.010	1.00	0.00	H
ATOM	959	2HG2	THR A	69160.189	10.619	0.583	1.00	0.00	H
ATOM	960	3HG2	THR A	69158.521	10.334	0.087	1.00	0.00	H
ATOM	961	N	ARG A	70160.448	7.616	2.465	1.00	0.00	N
ATOM	962	CA	ARG A	70159.709	7.125	3.623	1.00	0.00	C
ATOM	963	C	ARG A	70158.552	8.058	3.966	1.00	0.00	C
ATOM	964	O	ARG A	70158.739	9.263	4.126	1.00	0.00	O
ATOM	965	CB	ARG A	70160.641	6.985	4.828	1.00	0.00	C
ATOM	966	CG	ARG A	70159.945	6.478	6.082	1.00	0.00	C
ATOM	967	CD	ARG A	70159.718	7.595	7.090	1.00	0.00	C
ATOM	968	NE	ARG A	70160.355	7.311	8.373	1.00	0.00	N
ATOM	969	CZ	ARG A	70161.654	7.482	8.610	1.00	0.00	C
ATOM	970	NH1	ARG A	70162.457	7.933	7.653	1.00	0.00	N
ATOM	971	NH2	ARG A	70162.152	7.201	9.806	1.00	0.00	N
ATOM	972	H	ARG A	70161.371	7.922	2.583	1.00	0.00	H
ATOM	973	HA	ARG A	70159.310	6.153	3.374	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.433	6.293	4.577	1.00	0.00	H
ATOM	975	2HB	ARG A	70161.075	7.949	5.046	1.00	0.00	H
ATOM	976	1HG	ARG A	70158.990	6.057	5.806	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.558	5.714	6.537	1.00	0.00	H

ATOM	978	1HD	ARG A	70160.124	8.513	6.692	1.00	0.00	H
ATOM	979	2HD	ARG A	70158.654	7.709	7.245	1.00	0.00	H
ATOM	980	HE	ARG A	70159.786	6.977	9.097	1.00	0.00	H
ATOM	981	1HH1	ARG A	70162.087	8.147	6.749	1.00	0.00	H
ATOM	982	2HH1	ARG A	70163.431	8.058	7.838	1.00	0.00	H
ATOM	983	1HH2	ARG A	70161.552	6.861	10.530	1.00	0.00	H
ATOM	984	2HH2	ARG A	70163.127	7.329	9.983	1.00	0.00	H
ATOM	985	N	TYR A	71157.355	7.490	4.077	1.00	0.00	N
ATOM	986	CA	TYR A	71156.166	8.269	4.402	1.00	0.00	C
ATOM	987	C	TYR A	71155.674	7.950	5.809	1.00	0.00	C
ATOM	988	O	TYR A	71155.102	8.804	6.486	1.00	0.00	O
ATOM	989	CB	TYR A	71155.057	7.991	3.386	1.00	0.00	C
ATOM	990	CG	TYR A	71155.312	8.601	2.026	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.252	7.827	0.874	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.614	9.951	1.894	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.486	8.380	-0.370	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.847	10.512	0.653	1.00	0.00	C
ATOM	995	CZ	TYR A	71155.783	9.722	-0.476	1.00	0.00	C
ATOM	996	OH	TYR A	71156.016	10.276	-1.713	1.00	0.00	O
ATOM	997	H	TYR A	71157.270	6.524	3.937	1.00	0.00	H
ATOM	998	HA	TYR A	71156.431	9.314	4.354	1.00	0.00	H
ATOM	999	1HB	TYR A	71154.956	6.924	3.256	1.00	0.00	H
ATOM	1000	2HB	TYR A	71154.126	8.393	3.761	1.00	0.00	H
ATOM	1001	HD1	TYR A	71155.020	6.775	0.960	1.00	0.00	H
ATOM	1002	HD2	TYR A	71155.664	10.567	2.780	1.00	0.00	H
ATOM	1003	HE1	TYR A	71155.435	7.761	-1.254	1.00	0.00	H
ATOM	1004	HE2	TYR A	71156.080	11.563	0.571	1.00	0.00	H
ATOM	1005	HH	TYR A	71156.854	9.955	-2.056	1.00	0.00	H
ATOM	1006	N	PHE A	72155.900	6.714	6.244	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.480	6.283	7.572	1.00	0.00	C
ATOM	1008	C	PHE A	72156.457	5.262	8.147	1.00	0.00	C

ATOM	1009	O	PHE A	72157.463	4.930	7.521	1.00	0.00	O
ATOM	1010	CB	PHE A	72154.074	5.683	7.515	1.00	0.00	C
ATOM	1011	CG	PHE A	72153.907	4.646	6.442	1.00	0.00	C
ATOM	1012	CD1	PHE A	72153.991	3.296	6.745	1.00	0.00	C
ATOM	1013	CD2	PHE A	72153.664	5.020	5.130	1.00	0.00	C
ATOM	1014	CE1	PHE A	72153.838	2.340	5.760	1.00	0.00	C
ATOM	1015	CE2	PHE A	72153.510	4.068	4.140	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.597	2.726	4.456	1.00	0.00	C
ATOM	1017	H	PHE A	72156.362	6.078	5.659	1.00	0.00	H
ATOM	1018	HA	PHE A	72155.466	7.150	8.214	1.00	0.00	H
ATOM	1019	1HB	PHE A	72153.850	5.219	8.463	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.361	6.474	7.328	1.00	0.00	H
ATOM	1021	HD1	PHE A	72154.180	2.993	7.765	1.00	0.00	H
ATOM	1022	HD2	PHE A	72153.597	6.069	4.882	1.00	0.00	H
ATOM	1023	HE1	PHE A	72153.906	1.291	6.009	1.00	0.00	H
ATOM	1024	HE2	PHE A	72153.321	4.372	3.121	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.476	1.980	3.684	1.00	0.00	H
ATOM	1026	N	THR A	73156.152	4.768	9.342	1.00	0.00	N
ATOM	1027	CA	THR A	73157.003	3.784	10.003	1.00	0.00	C
ATOM	1028	C	THR A	73156.260	2.467	10.201	1.00	0.00	C
ATOM	1029	O	THR A	73155.275	2.404	10.938	1.00	0.00	O
ATOM	1030	CB	THR A	73157.485	4.319	11.352	1.00	0.00	C
ATOM	1031	OG1	THR A	73157.819	5.693	11.256	1.00	0.00	O
ATOM	1032	CG2	THR A	73158.697	3.588	11.888	1.00	0.00	C
ATOM	1033	H	THR A	73155.336	5.071	9.791	1.00	0.00	H
ATOM	1034	HA	THR A	73157.860	3.608	9.369	1.00	0.00	H
ATOM	1035	HB	THR A	73156.689	4.214	12.075	1.00	0.00	H
ATOM	1036	HG1	THR A	73157.943	6.054	12.137	1.00	0.00	H
ATOM	1037	1HG2	THR A	73158.608	3.479	12.959	1.00	0.00	H
ATOM	1038	2HG2	THR A	73159.589	4.151	11.656	1.00	0.00	H
ATOM	1039	3HG2	THR A	73158.759	2.610	11.431	1.00	0.00	H

ATOM	1040	N	CYS A	74156.736	1.418	9.539	1.00	0.00	N
ATOM	1041	CA	CYS A	74156.116	0.102	9.643	1.00	0.00	C
ATOM	1042	C	CYS A	74157.174	-0.992	9.725	1.00	0.00	C
ATOM	1043	O	CYS A	74158.373	-0.717	9.671	1.00	0.00	O
ATOM	1044	CB	CYS A	74155.198	-0.148	8.444	1.00	0.00	C
ATOM	1045	SG	CYS A	74153.512	0.467	8.665	1.00	0.00	S
ATOM	1046	H	CYS A	74157.524	1.531	8.967	1.00	0.00	H
ATOM	1047	HA	CYS A	74155.525	0.085	10.546	1.00	0.00	H
ATOM	1048	1HB	CYS A	74155.613	0.339	7.575	1.00	0.00	H
ATOM	1049	2HB	CYS A	74155.140	-1.211	8.261	1.00	0.00	H
ATOM	1050	HG	CYS A	74153.269	0.955	7.875	1.00	0.00	H
ATOM	1051	N	ALA A	75156.723	-2.236	9.856	1.00	0.00	N
ATOM	1052	CA	ALA A	75157.631	-3.373	9.946	1.00	0.00	C
ATOM	1053	C	ALA A	75158.416	-3.552	8.652	1.00	0.00	C
ATOM	1054	O	ALA A	75158.263	-2.776	7.708	1.00	0.00	O
ATOM	1055	CB	ALA A	75156.857	-4.640	10.276	1.00	0.00	C
ATOM	1056	H	ALA A	75155.756	-2.393	9.894	1.00	0.00	H
ATOM	1057	HA	ALA A	75158.325	-3.183	10.752	1.00	0.00	H
ATOM	1058	1HB	ALA A	75156.841	-4.784	11.347	1.00	0.00	H
ATOM	1059	2HB	ALA A	75157.337	-5.487	9.807	1.00	0.00	H
ATOM	1060	3HB	ALA A	75155.846	-4.551	9.910	1.00	0.00	H
ATOM	1061	N	LEU A	76159.258	-4.580	8.613	1.00	0.00	N
ATOM	1062	CA	LEU A	76160.068	-4.861	7.434	1.00	0.00	C
ATOM	1063	C	LEU A	76159.357	-5.842	6.507	1.00	0.00	C
ATOM	1064	O	LEU A	76158.756	-6.816	6.960	1.00	0.00	O
ATOM	1065	CB	LEU A	76161.428	-5.427	7.847	1.00	0.00	C
ATOM	1066	CG	LEU A	76162.316	-4.465	8.637	1.00	0.00	C
ATOM	1067	CD1	LEU A	76163.393	-5.228	9.391	1.00	0.00	C
ATOM	1068	CD2	LEU A	76162.943	-3.436	7.708	1.00	0.00	C
ATOM	1069	H	LEU A	76159.336	-5.163	9.397	1.00	0.00	H
ATOM	1070	HA	LEU A	76160.219	-3.931	6.908	1.00	0.00	H

ATOM	1071	1HB	LEU A	76161.259	-6.307	8.451	1.00	0.00	H
ATOM	1072	2HB	LEU A	76161.959	-5.720	6.954	1.00	0.00	H
ATOM	1073	HG	LEU A	76161.711	-3.938	9.361	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76164.253	-4.593	9.534	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76163.679	-6.102	8.824	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76163.009	-5.535	10.354	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76163.039	-3.855	6.717	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76163.920	-3.162	8.079	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76162.315	-2.558	7.666	1.00	0.00	H
ATOM	1080	N	LYS A	77159.429	-5.577	5.207	1.00	0.00	N
ATOM	1081	CA	LYS A	77158.793	-6.436	4.214	1.00	0.00	C
ATOM	1082	C	LYS A	77157.283	-6.478	4.419	1.00	0.00	C
ATOM	1083	O	LYS A	77156.656	-7.529	4.285	1.00	0.00	O
ATOM	1084	CB	LYS A	77159.370	-7.851	4.288	1.00	0.00	C
ATOM	1085	CG	LYS A	77160.884	-7.899	4.152	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.333	-7.461	2.766	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.582	-6.598	2.832	1.00	0.00	C
ATOM	1088	NZ	LYS A	77162.254	-5.158	3.023	1.00	0.00	N
ATOM	1089	H	LYS A	77159.924	-4.785	4.906	1.00	0.00	H
ATOM	1090	HA	LYS A	77159.001	-6.024	3.238	1.00	0.00	H
ATOM	1091	1HB	LYS A	77159.103	-8.287	5.239	1.00	0.00	H
ATOM	1092	2HB	LYS A	77158.940	-8.445	3.496	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.323	-7.240	4.887	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.220	-8.910	4.327	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.545	-8.337	2.174	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.538	-6.894	2.304	1.00	0.00	H
ATOM	1097	1HE	LYS A	77163.191	-6.930	3.660	1.00	0.00	H
ATOM	1098	2HE	LYS A	77163.134	-6.714	1.912	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77161.291	-4.963	2.679	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77162.925	-4.564	2.495	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77162.307	-4.909	4.032	1.00	0.00	H

ATOM	1102	N	LYS A	78156.702	-5.327	4.745	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.265	-5.233	4.968	1.00	0.00	C
ATOM	1104	C	LYS A	78154.741	-3.857	4.567	1.00	0.00	C
ATOM	1105	O	LYS A	78153.838	-3.316	5.206	1.00	0.00	O
ATOM	1106	CB	LYS A	78154.936	-5.509	6.436	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.439	-6.856	6.930	1.00	0.00	C
ATOM	1108	CD	LYS A	78155.044	-7.103	8.377	1.00	0.00	C
ATOM	1109	CE	LYS A	78153.565	-7.429	8.503	1.00	0.00	C
ATOM	1110	NZ	LYS A	78153.262	-8.159	9.765	1.00	0.00	N
ATOM	1111	H	LYS A	78157.254	-4.523	4.837	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.785	-5.980	4.355	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.384	-4.737	7.045	1.00	0.00	H
ATOM	1114	2HB	LYS A	78153.864	-5.480	6.566	1.00	0.00	H
ATOM	1115	1HG	LYS A	78155.015	-7.635	6.314	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.516	-6.878	6.851	1.00	0.00	H
ATOM	1117	1HD	LYS A	78155.619	-7.932	8.760	1.00	0.00	H
ATOM	1118	2HD	LYS A	78155.259	-6.215	8.954	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.003	-6.507	8.487	1.00	0.00	H
ATOM	1120	2HE	LYS A	78153.271	-8.042	7.663	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78153.299	-9.186	9.602	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78152.312	-7.907	10.105	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78153.957	-7.909	10.497	1.00	0.00	H
ATOM	1124	N	ALAA	79155.313	-3.298	3.507	1.00	0.00	N
ATOM	1125	CA	ALAA	79154.904	-1.986	3.022	1.00	0.00	C
ATOM	1126	C	ALAA	79154.827	-1.964	1.499	1.00	0.00	C
ATOM	1127	O	ALAA	79155.846	-1.846	0.817	1.00	0.00	O
ATOM	1128	CB	ALAA	79155.864	-0.916	3.519	1.00	0.00	C
ATOM	1129	H	ALAA	79156.028	-3.779	3.040	1.00	0.00	H
ATOM	1130	HA	ALAA	79153.924	-1.772	3.425	1.00	0.00	H
ATOM	1131	1HB	ALAA	79156.388	-1.279	4.391	1.00	0.00	H
ATOM	1132	2HB	ALAA	79155.310	-0.026	3.776	1.00	0.00	H

ATOM 1133 3HB ALA A 79156.578 -0.684 2.741 1.00 0.00 H
 ATOM 1134 N LEU A 80153.612 -2.077 0.970 1.00 0.00 N
 ATOM 1135 CA LEU A 80153.402 -2.069 -0.473 1.00 0.00 C
 ATOM 1136 C LEU A 80152.484 -0.924 -0.884 1.00 0.00 C
 ATOM 1137 O LEU A 80151.354 -0.818 -0.407 1.00 0.00 O
 ATOM 1138 CB LEU A 80152.808 -3.404 -0.928 1.00 0.00 C
 ATOM 1139 CG LEU A 80152.489 -3.494 -2.422 1.00 0.00 C
 ATOM 1140 CD1 LEU A 80153.744 -3.825 -3.216 1.00 0.00 C
 ATOM 1141 CD2 LEU A 80151.407 -4.534 -2.673 1.00 0.00 C
 ATOM 1142 H LEU A 80152.839 -2.167 1.566 1.00 0.00 H
 ATOM 1143 HA LEU A 80154.362 -1.934 -0.947 1.00 0.00 H
 ATOM 1144 1HB LEU A 80153.508 -4.189 -0.682 1.00 0.00 H
 ATOM 1145 2HB LEU A 80151.894 -3.573 -0.378 1.00 0.00 H
 ATOM 1146 HG LEU A 80152.122 -2.537 -2.764 1.00 0.00 H
 ATOM 1147 1HD1 LEU A 80153.968 -4.877 -3.113 1.00 0.00 H
 ATOM 1148 2HD1 LEU A 80154.572 -3.243 -2.839 1.00 0.00 H
 ATOM 1149 3HD1 LEU A 80153.582 -3.590 -4.257 1.00 0.00 H
 ATOM 1150 1HD2 LEU A 80150.440 -4.054 -2.672 1.00 0.00 H
 ATOM 1151 2HD2 LEU A 80151.440 -5.282 -1.895 1.00 0.00 H
 ATOM 1152 3HD2 LEU A 80151.575 -5.003 -3.631 1.00 0.00 H
 ATOM 1153 N PHE A 81152.977 -0.065 -1.770 1.00 0.00 N
 ATOM 1154 CA PHE A 81152.201 1.074 -2.245 1.00 0.00 C
 ATOM 1155 C PHE A 81151.396 0.705 -3.487 1.00 0.00 C
 ATOM 1156 O PHE A 81151.813 -0.141 -4.280 1.00 0.00 O
 ATOM 1157 CB PHE A 81153.123 2.254 -2.554 1.00 0.00 C
 ATOM 1158 CG PHE A 81153.759 2.855 -1.332 1.00 0.00 C
 ATOM 1159 CD1 PHE A 81153.219 3.986 -0.740 1.00 0.00 C
 ATOM 1160 CD2 PHE A 81154.894 2.288 -0.775 1.00 0.00 C
 ATOM 1161 CE1 PHE A 81153.801 4.540 0.385 1.00 0.00 C
 ATOM 1162 CE2 PHE A 81155.479 2.838 0.349 1.00 0.00 C
 ATOM 1163 CZ PHE A 81154.932 3.966 0.930 1.00 0.00 C

ATOM 1164 H PHE A 81153.885 -0.201 -2.114 1.00 0.00 H
 ATOM 1165 HA PHE A 81151.517 1.359 -1.460 1.00 0.00 H
 ATOM 1166 1HB PHE A 81153.914 1.922 -3.209 1.00 0.00 H
 ATOM 1167 2HB PHE A 81152.554 3.027 -3.048 1.00 0.00 H
 ATOM 1168 HD1 PHE A 81152.335 4.436 -1.166 1.00 0.00 H
 ATOM 1169 HD2 PHE A 81155.323 1.406 -1.228 1.00 0.00 H
 ATOM 1170 HE1 PHE A 81153.371 5.423 0.835 1.00 0.00 H
 ATOM 1171 HE2 PHE A 81156.364 2.387 0.773 1.00 0.00 H
 ATOM 1172 HZ PHE A 81155.389 4.398 1.808 1.00 0.00 H
 ATOM 1173 N VAL A 82150.242 1.343 -3.650 1.00 0.00 N
 ATOM 1174 CA VAL A 82149.380 1.081 -4.796 1.00 0.00 C
 ATOM 1175 C VAL A 82148.465 2.268 -5.077 1.00 0.00 C
 ATOM 1176 O VAL A 82148.334 3.174 -4.253 1.00 0.00 O
 ATOM 1177 CB VAL A 82148.517 -0.175 -4.574 1.00 0.00 C
 ATOM 1178 CG1 VAL A 82149.388 -1.419 -4.519 1.00 0.00 C
 ATOM 1179 CG2 VAL A 82147.691 -0.038 -3.304 1.00 0.00 C
 ATOM 1180 H VAL A 82149.965 2.006 -2.984 1.00 0.00 H
 ATOM 1181 HA VAL A 82150.010 0.912 -5.656 1.00 0.00 H
 ATOM 1182 HB VAL A 82147.839 -0.273 -5.409 1.00 0.00 H
 ATOM 1183 1HG1 VAL A 82150.172 -1.344 -5.260 1.00 0.00 H
 ATOM 1184 2HG1 VAL A 82148.784 -2.291 -4.723 1.00 0.00 H
 ATOM 1185 3HG1 VAL A 82149.829 -1.508 -3.538 1.00 0.00 H
 ATOM 1186 1HG2 VAL A 82146.737 -0.526 -3.441 1.00 0.00 H
 ATOM 1187 2HG2 VAL A 82147.531 1.009 -3.090 1.00 0.00 H
 ATOM 1188 3HG2 VAL A 82148.217 -0.497 -2.480 1.00 0.00 H
 ATOM 1189 N LYS A 83147.834 2.257 -6.247 1.00 0.00 N
 ATOM 1190 CA LYS A 83146.931 3.333 -6.639 1.00 0.00 C
 ATOM 1191 C LYS A 83145.672 3.327 -5.778 1.00 0.00 C
 ATOM 1192 O LYS A 83144.950 2.332 -5.724 1.00 0.00 O
 ATOM 1193 CB LYS A 83146.554 3.198 -8.116 1.00 0.00 C
 ATOM 1194 CG LYS A 83147.716 3.442 -9.064 1.00 0.00 C

ATOM	1195	CD	LYS A	83147.351	3.082	-10.495	1.00	0.00	C
ATOM	1196	CE	LYS A	83147.951	4.066	-11.487	1.00	0.00	C
ATOM	1197	NZ	LYS A	83148.395	3.393	-12.739	1.00	0.00	N
ATOM	1198	H	LYS A	83147.979	1.508	-6.862	1.00	0.00	H
ATOM	1199	HA	LYS A	83147.446	4.270	-6.492	1.00	0.00	H
ATOM	1200	1HB	LYS A	83146.178	2.201	-8.289	1.00	0.00	H
ATOM	1201	2HB	LYS A	83145.776	3.912	-8.343	1.00	0.00	H
ATOM	1202	1HG	LYS A	83147.988	4.486	-9.024	1.00	0.00	H
ATOM	1203	2HG	LYS A	83148.555	2.837	-8.753	1.00	0.00	H
ATOM	1204	1HD	LYS A	83147.725	2.094	-10.715	1.00	0.00	H
ATOM	1205	2HD	LYS A	83146.276	3.093	-10.596	1.00	0.00	H
ATOM	1206	1HE	LYS A	83147.206	4.809	-11.733	1.00	0.00	H
ATOM	1207	2HE	LYS A	83148.800	4.549	-11.027	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83148.832	2.476	-12.515	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83149.090	3.984	-13.235	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83147.580	3.233	-13.366	1.00	0.00	H
ATOM	1211	N	LEU A	84145.417	4.445	-5.109	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.246	4.573	-4.250	1.00	0.00	C
ATOM	1213	C	LEU A	84142.961	4.378	-5.049	1.00	0.00	C
ATOM	1214	O	LEU A	84141.971	3.858	-4.535	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.237	5.944	-3.571	1.00	0.00	C
ATOM	1216	CG	LEU A	84142.996	6.246	-2.730	1.00	0.00	C
ATOM	1217	CD1	LEU A	84143.069	5.526	-1.392	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.846	7.745	-2.522	1.00	0.00	C
ATOM	1219	H	LEU A	84146.031	5.204	-5.195	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.305	3.805	-3.493	1.00	0.00	H
ATOM	1221	1HB	LEU A	84145.105	6.008	-2.929	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.320	6.701	-4.335	1.00	0.00	H
ATOM	1223	HG	LEU A	84142.120	5.890	-3.253	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84143.969	5.817	-0.874	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84143.079	4.458	-1.559	1.00	0.00	H

ATOM	1226	3HD1	LEU A	84142.208	5.788	-0.795	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84143.594	8.088	-1.824	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84141.862	7.959	-2.130	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84142.974	8.254	-3.466	1.00	0.00	H
ATOM	1230	N	LYS A	85142.985	4.799	-6.310	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.821	4.669	-7.179	1.00	0.00	C
ATOM	1232	C	LYS A	85141.476	3.201	-7.415	1.00	0.00	C
ATOM	1233	O	LYS A	85140.323	2.860	-7.676	1.00	0.00	O
ATOM	1234	CB	LYS A	85142.078	5.366	-8.517	1.00	0.00	C
ATOM	1235	CG	LYS A	85143.400	4.979	-9.161	1.00	0.00	C
ATOM	1236	CD	LYS A	85144.399	6.124	-9.118	1.00	0.00	C
ATOM	1237	CE	LYS A	85144.251	7.037	-10.325	1.00	0.00	C
ATOM	1238	NZ	LYS A	85144.698	8.426	-10.028	1.00	0.00	N
ATOM	1239	H	LYS A	85143.802	5.205	-6.663	1.00	0.00	H
ATOM	1240	HA	LYS A	85140.987	5.149	-6.689	1.00	0.00	H
ATOM	1241	1HB	LYS A	85141.281	5.111	-9.201	1.00	0.00	H
ATOM	1242	2HB	LYS A	85142.077	6.434	-8.360	1.00	0.00	H
ATOM	1243	1HG	LYS A	85143.814	4.134	-8.631	1.00	0.00	H
ATOM	1244	2HG	LYS A	85143.222	4.706	-10.191	1.00	0.00	H
ATOM	1245	1HD	LYS A	85144.235	6.700	-8.221	1.00	0.00	H
ATOM	1246	2HD	LYS A	85145.399	5.715	-9.109	1.00	0.00	H
ATOM	1247	1HE	LYS A	85144.847	6.643	-11.134	1.00	0.00	H
ATOM	1248	2HE	LYS A	85143.212	7.057	-10.619	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85144.700	8.995	-10.899	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85145.659	8.416	-9.632	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85144.056	8.868	-9.338	1.00	0.00	H
ATOM	1252	N	SER A	86142.483	2.338	-7.322	1.00	0.00	N
ATOM	1253	CA	SER A	86142.283	0.908	-7.525	1.00	0.00	C
ATOM	1254	C	SER A	86142.180	0.177	-6.191	1.00	0.00	C
ATOM	1255	O	SER A	86142.582	-0.981	-6.073	1.00	0.00	O
ATOM	1256	CB	SER A	86143.430	0.324	-8.352	1.00	0.00	C

ATOM 1257 OG SER A 86143.578 1.016 -9.581 1.00 0.00 O
 ATOM 1258 H SER A 86143.380 2.669 -7.111 1.00 0.00 H
 ATOM 1259 HA SER A 86141.358 0.777 -8.067 1.00 0.00 H
 ATOM 1260 1HB SER A 86144.351 0.407 -7.794 1.00 0.00 H
 ATOM 1261 2HB SER A 86143.228 -0.716 -8.561 1.00 0.00 H
 ATOM 1262 HG SER A 86142.715 1.148 -9.979 1.00 0.00 H
 ATOM 1263 N CYS A 87141.639 0.860 -5.188 1.00 0.00 N
 ATOM 1264 CA CYS A 87141.482 0.275 -3.861 1.00 0.00 C
 ATOM 1265 C CYS A 87140.008 0.152 -3.491 1.00 0.00 C
 ATOM 1266 O CYS A 87139.153 0.819 -4.073 1.00 0.00 O
 ATOM 1267 CB CYS A 87142.211 1.124 -2.818 1.00 0.00 C
 ATOM 1268 SG CYS A 87143.995 0.839 -2.751 1.00 0.00 S
 ATOM 1269 H CYS A 87141.337 1.779 -5.343 1.00 0.00 H
 ATOM 1270 HA CYS A 87141.920 -0.712 -3.878 1.00 0.00 H
 ATOM 1271 1HB CYS A 87142.055 2.168 -3.041 1.00 0.00 H
 ATOM 1272 2HB CYS A 87141.806 0.906 -1.840 1.00 0.00 H
 ATOM 1273 HG CYS A 87144.366 1.082 -3.603 1.00 0.00 H
 ATOM 1274 N ARG A 88139.715 -0.707 -2.519 1.00 0.00 N
 ATOM 1275 CA ARG A 88138.344 -0.918 -2.072 1.00 0.00 C
 ATOM 1276 C ARG A 88138.274 -0.998 -0.547 1.00 0.00 C
 ATOM 1277 O ARG A 88139.152 -1.577 0.091 1.00 0.00 O
 ATOM 1278 CB ARG A 88137.777 -2.198 -2.689 1.00 0.00 C
 ATOM 1279 CG ARG A 88136.918 -1.952 -3.918 1.00 0.00 C
 ATOM 1280 CD ARG A 88135.437 -1.957 -3.574 1.00 0.00 C
 ATOM 1281 NE ARG A 88134.598 -2.033 -4.768 1.00 0.00 N
 ATOM 1282 CZ ARG A 88133.279 -2.220 -4.736 1.00 0.00 C
 ATOM 1283 NH1 ARG A 88132.649 -2.351 -3.576 1.00 0.00 N
 ATOM 1284 NH2 ARG A 88132.592 -2.276 -5.868 1.00 0.00 N
 ATOM 1285 H ARG A 88140.440 -1.210 -2.093 1.00 0.00 H
 ATOM 1286 HA ARG A 88137.756 -0.077 -2.406 1.00 0.00 H
 ATOM 1287 1HB ARG A 88138.597 -2.841 -2.972 1.00 0.00 H

ATOM	1288	2HB	ARG A	88137.173	-2.705	-1.950	1.00	0.00	H
ATOM	1289	1HG	ARG A	88137.176	-0.992	-4.340	1.00	0.00	H
ATOM	1290	2HG	ARG A	88137.113	-2.730	-4.642	1.00	0.00	H
ATOM	1291	1HD	ARG A	88135.230	-2.810	-2.946	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.203	-1.050	-3.037	1.00	0.00	H
ATOM	1293	HE	ARG A	88135.038	-1.938	-5.638	1.00	0.00	H
ATOM	1294	1HH1	ARG A	88133.161	-2.310	-2.719	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88131.658	-2.491	-3.559	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88133.062	-2.176	-6.745	1.00	0.00	H
ATOM	1297	2HH2	ARG A	88131.601	-2.416	-5.845	1.00	0.00	H
ATOM	1298	N	PRO A	89137.224	-0.415	0.060	1.00	0.00	N
ATOM	1299	CA	PRO A	89137.049	-0.428	1.516	1.00	0.00	C
ATOM	1300	C	PRO A	89137.081	-1.842	2.089	1.00	0.00	C
ATOM	1301	O	PRO A	89136.463	-2.756	1.545	1.00	0.00	O
ATOM	1302	CB	PRO A	89135.666	0.197	1.720	1.00	0.00	C
ATOM	1303	CG	PRO A	89135.435	1.020	0.501	1.00	0.00	C
ATOM	1304	CD	PRO A	89136.128	0.299	-0.621	1.00	0.00	C
ATOM	1305	HA	PRO A	89137.797	0.175	2.009	1.00	0.00	H
ATOM	1306	1HB	PRO A	89134.926	-0.584	1.817	1.00	0.00	H
ATOM	1307	2HB	PRO A	89135.672	0.807	2.612	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.376	1.093	0.303	1.00	0.00	H
ATOM	1309	2HG	PRO A	89135.862	2.003	0.634	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.452	-0.396	-1.098	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.516	1.005	-1.340	1.00	0.00	H
ATOM	1312	N	ASP A	90137.806	-2.014	3.189	1.00	0.00	N
ATOM	1313	CA	ASP A	90137.917	-3.316	3.835	1.00	0.00	C
ATOM	1314	C	ASP A	90136.972	-3.412	5.029	1.00	0.00	C
ATOM	1315	O	ASP A	90137.077	-2.637	5.980	1.00	0.00	O
ATOM	1316	CB	ASP A	90139.356	-3.565	4.287	1.00	0.00	C
ATOM	1317	CG	ASP A	90139.717	-5.038	4.282	1.00	0.00	C
ATOM	1318	OD1	ASP A	90140.547	-5.448	5.120	1.00	0.00	O

ATOM	1319	OD2	ASP	A	90139.169	-5.780	3.441	1.00	0.00	O
ATOM	1320	H	ASP	A	90138.276	-1.246	3.577	1.00	0.00	H
ATOM	1321	HA	ASP	A	90137.640	-4.068	3.111	1.00	0.00	H
ATOM	1322	1HB	ASP	A	90140.030	-3.047	3.622	1.00	0.00	H
ATOM	1323	2HB	ASP	A	90139.482	-3.185	5.290	1.00	0.00	H
ATOM	1324	N	SER	A	91136.050	-4.367	4.972	1.00	0.00	N
ATOM	1325	CA	SER	A	91135.087	-4.563	6.049	1.00	0.00	C
ATOM	1326	C	SER	A	91135.527	-5.694	6.974	1.00	0.00	C
ATOM	1327	O	SER	A	91134.698	-6.422	7.519	1.00	0.00	O
ATOM	1328	CB	SER	A	91133.703	-4.870	5.475	1.00	0.00	C
ATOM	1329	OG	SER	A	91132.679	-4.405	6.337	1.00	0.00	O
ATOM	1330	H	SER	A	91136.017	-4.954	4.188	1.00	0.00	H
ATOM	1331	HA	SER	A	91135.037	-3.649	6.618	1.00	0.00	H
ATOM	1332	1HB	SER	A	91133.597	-4.383	4.517	1.00	0.00	H
ATOM	1333	2HB	SER	A	91133.595	-5.937	5.350	1.00	0.00	H
ATOM	1334	HG	SER	A	91131.982	-5.063	6.390	1.00	0.00	H
ATOM	1335	N	ARG	A	92136.837	-5.835	7.146	1.00	0.00	N
ATOM	1336	CA	ARG	A	92137.387	-6.876	8.006	1.00	0.00	C
ATOM	1337	C	ARG	A	92137.020	-6.628	9.465	1.00	0.00	C
ATOM	1338	O	ARG	A	92136.878	-7.568	10.247	1.00	0.00	O
ATOM	1339	CB	ARG	A	92138.909	-6.940	7.854	1.00	0.00	C
ATOM	1340	CG	ARG	A	92139.365	-7.676	6.605	1.00	0.00	C
ATOM	1341	CD	ARG	A	92139.163	-9.177	6.737	1.00	0.00	C
ATOM	1342	NE	ARG	A	92137.960	-9.631	6.042	1.00	0.00	N
ATOM	1343	CZ	ARG	A	92137.717	-10.903	5.736	1.00	0.00	C
ATOM	1344	NH1	ARG	A	92138.590	-11.850	6.059	1.00	0.00	N
ATOM	1345	NH2	ARG	A	92136.599	-11.230	5.103	1.00	0.00	N
ATOM	1346	H	ARG	A	92137.449	-5.222	6.686	1.00	0.00	H
ATOM	1347	HA	ARG	A	92136.964	-7.819	7.695	1.00	0.00	H
ATOM	1348	1HB	ARG	A	92139.298	-5.934	7.815	1.00	0.00	H
ATOM	1349	2HB	ARG	A	92139.324	-7.444	8.715	1.00	0.00	H

ATOM	1350	1HG	ARG A	92138.794	-7.320	5.761	1.00	0.00	H
ATOM	1351	2HG	ARG A	92140.414	-7.475	6.444	1.00	0.00	H
ATOM	1352	1HD	ARG A	92140.021	-9.681	6.317	1.00	0.00	H
ATOM	1353	2HD	ARG A	92139.078	-9.426	7.785	1.00	0.00	H
ATOM	1354	HE	ARG A	92137.299	-8.953	5.792	1.00	0.00	H
ATOM	1355	1HH1	ARG A	92139.436	-11.610	6.536	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92138.402	-12.804	5.826	1.00	0.00	H
ATOM	1357	1HH2	ARG A	92135.937	-10.522	4.858	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92136.416	-12.187	4.873	1.00	0.00	H
ATOM	1359	N	PHE A	93136.868	-5.358	9.825	1.00	0.00	N
ATOM	1360	CA	PHE A	93136.517	-4.988	11.192	1.00	0.00	C
ATOM	1361	C	PHE A	93135.373	-3.979	11.206	1.00	0.00	C
ATOM	1362	O	PHE A	93135.331	-3.085	12.051	1.00	0.00	O
ATOM	1363	CB	PHE A	93137.733	-4.406	11.914	1.00	0.00	C
ATOM	1364	CG	PHE A	93138.849	-5.395	12.101	1.00	0.00	C
ATOM	1365	CD1	PHE A	93139.524	-5.913	11.008	1.00	0.00	C
ATOM	1366	CD2	PHE A	93139.223	-5.804	13.372	1.00	0.00	C
ATOM	1367	CE1	PHE A	93140.552	-6.822	11.178	1.00	0.00	C
ATOM	1368	CE2	PHE A	93140.248	-6.713	13.547	1.00	0.00	C
ATOM	1369	CZ	PHE A	93140.913	-7.223	12.449	1.00	0.00	C
ATOM	1370	H	PHE A	93136.994	-4.652	9.157	1.00	0.00	H
ATOM	1371	HA	PHE A	93136.199	-5.882	11.705	1.00	0.00	H
ATOM	1372	1HB	PHE A	93138.119	-3.576	11.342	1.00	0.00	H
ATOM	1373	2HB	PHE A	93137.431	-4.056	12.889	1.00	0.00	H
ATOM	1374	HD1	PHE A	93139.242	-5.600	10.014	1.00	0.00	H
ATOM	1375	HD2	PHE A	93138.702	-5.407	14.231	1.00	0.00	H
ATOM	1376	HE1	PHE A	93141.070	-7.219	10.317	1.00	0.00	H
ATOM	1377	HE2	PHE A	93140.529	-7.025	14.542	1.00	0.00	H
ATOM	1378	HZ	PHE A	93141.716	-7.934	12.584	1.00	0.00	H
ATOM	1379	N	ALAA	94134.446	-4.128	10.266	1.00	0.00	N
ATOM	1380	CA	ALAA	94133.302	-3.230	10.171	1.00	0.00	C

ATOM 1381 C ALAA 94132.101 -3.789 10.924 1.00 0.00 C
 ATOM 1382 O ALAA 94131.718 -4.944 10.733 1.00 0.00 O
 ATOM 1383 CB ALAA 94132.944 -2.982 8.713 1.00 0.00 C
 ATOM 1384 H ALAA 94134.534 -4.860 9.620 1.00 0.00 H
 ATOM 1385 HA ALAA 94133.583 -2.285 10.613 1.00 0.00 H
 ATOM 1386 1HB ALAA 94132.185 -3.686 8.404 1.00 0.00 H
 ATOM 1387 2HB ALAA 94133.824 -3.111 8.100 1.00 0.00 H
 ATOM 1388 3HB ALAA 94132.570 -1.976 8.600 1.00 0.00 H
 ATOM 1389 N SERA 95131.509 -2.964 11.783 1.00 0.00 N
 ATOM 1390 CA SERA 95130.351 -3.376 12.566 1.00 0.00 C
 ATOM 1391 C SERA 95129.056 -3.097 11.811 1.00 0.00 C
 ATOM 1392 O SERA 95128.835 -1.988 11.325 1.00 0.00 O
 ATOM 1393 CB SERA 95130.336 -2.652 13.913 1.00 0.00 C
 ATOM 1394 OG SERA 95130.569 -1.263 13.749 1.00 0.00 O
 ATOM 1395 H SERA 95131.861 -2.056 11.891 1.00 0.00 H
 ATOM 1396 HA SERA 95130.430 -4.438 12.740 1.00 0.00 H
 ATOM 1397 1HB SERA 95129.372 -2.788 14.382 1.00 0.00 H
 ATOM 1398 2HB SERA 95131.107 -3.062 14.548 1.00 0.00 H
 ATOM 1399 HG SERA 95129.901 -0.892 13.169 1.00 0.00 H
 ATOM 1400 N LEUA 96128.201 -4.111 11.717 1.00 0.00 N
 ATOM 1401 CA LEUA 96126.927 -3.976 11.022 1.00 0.00 C
 ATOM 1402 C LEUA 96125.985 -5.119 11.386 1.00 0.00 C
 ATOM 1403 O LEUA 96126.309 -6.290 11.190 1.00 0.00 O
 ATOM 1404 CB LEUA 96127.150 -3.939 9.507 1.00 0.00 C
 ATOM 1405 CG LEUA 96127.031 -2.553 8.870 1.00 0.00 C
 ATOM 1406 CD1 LEUA 96127.658 -2.548 7.484 1.00 0.00 C
 ATOM 1407 CD2 LEUA 96125.573 -2.123 8.800 1.00 0.00 C
 ATOM 1408 H LEUA 96128.433 -4.971 12.126 1.00 0.00 H
 ATOM 1409 HA LEUA 96126.478 -3.044 11.333 1.00 0.00 H
 ATOM 1410 1HB LEUA 96128.137 -4.324 9.301 1.00 0.00 H
 ATOM 1411 2HB LEUA 96126.424 -4.588 9.040 1.00 0.00 H

ATOM 1412 HG LEU A 96127.563 -1.837 9.479 1.00 0.00 H
 ATOM 1413 1HD1 LEU A 96127.346 -3.430 6.944 1.00 0.00 H
 ATOM 1414 2HD1 LEU A 96128.733 -2.544 7.576 1.00 0.00 H
 ATOM 1415 3HD1 LEU A 96127.339 -1.666 6.948 1.00 0.00 H
 ATOM 1416 1HD2 LEU A 96124.961 -2.970 8.524 1.00 0.00 H
 ATOM 1417 2HD2 LEU A 96125.463 -1.344 8.060 1.00 0.00 H
 ATOM 1418 3HD2 LEU A 96125.261 -1.752 9.764 1.00 0.00 H
 ATOM 1419 N GLN A 97124.818 -4.770 11.919 1.00 0.00 N
 ATOM 1420 CA GLN A 97123.829 -5.767 12.312 1.00 0.00 C
 ATOM 1421 C GLN A 97122.418 -5.307 11.952 1.00 0.00 C
 ATOM 1422 O GLN A 97121.781 -4.580 12.715 1.00 0.00 O
 ATOM 1423 CB GLN A 97123.920 -6.040 13.814 1.00 0.00 C
 ATOM 1424 CG GLN A 97124.007 -4.778 14.657 1.00 0.00 C
 ATOM 1425 CD GLN A 97123.601 -5.011 16.100 1.00 0.00 C
 ATOM 1426 OE1 GLN A 97122.523 -4.598 16.527 1.00 0.00 O
 ATOM 1427 NE2 GLN A 97124.464 -5.675 16.858 1.00 0.00 N
 ATOM 1428 H GLN A 97124.618 -3.821 12.052 1.00 0.00 H
 ATOM 1429 HA GLN A 97124.047 -6.679 11.777 1.00 0.00 H
 ATOM 1430 1HB GLN A 97123.045 -6.593 14.122 1.00 0.00 H
 ATOM 1431 2HB GLN A 97124.798 -6.637 14.007 1.00 0.00 H
 ATOM 1432 1HG GLN A 97125.024 -4.418 14.640 1.00 0.00 H
 ATOM 1433 2HG GLN A 97123.354 -4.030 14.231 1.00 0.00 H
 ATOM 1434 1HE2 GLN A 97125.305 -5.974 16.450 1.00 0.00 H
 ATOM 1435 2HE2 GLN A 97124.228 -5.840 17.794 1.00 0.00 H
 ATOM 1436 N PRO A 98121.906 -5.725 10.780 1.00 0.00 N
 ATOM 1437 CA PRO A 98120.563 -5.349 10.327 1.00 0.00 C
 ATOM 1438 C PRO A 98119.501 -5.591 11.395 1.00 0.00 C
 ATOM 1439 O PRO A 98118.481 -4.905 11.436 1.00 0.00 O
 ATOM 1440 CB PRO A 98120.328 -6.262 9.121 1.00 0.00 C
 ATOM 1441 CG PRO A 98121.691 -6.560 8.604 1.00 0.00 C
 ATOM 1442 CD PRO A 98122.594 -6.595 9.805 1.00 0.00 C

ATOM 1443 HA PRO A 98120.526 -4.315 10.012 1.00 0.00 H
 ATOM 1444 1HB PRO A 98119.819 -7.160 9.441 1.00 0.00 H
 ATOM 1445 2HB PRO A 98119.730 -5.745 8.386 1.00 0.00 H
 ATOM 1446 1HG PRO A 98121.692 -7.519 8.105 1.00 0.00 H
 ATOM 1447 2HG PRO A 98122.004 -5.782 7.922 1.00 0.00 H
 ATOM 1448 1HD PRO A 98122.681 -7.602 10.184 1.00 0.00 H
 ATOM 1449 2HD PRO A 98123.568 -6.199 9.557 1.00 0.00 H
 ATOM 1450 N SER A 99119.751 -6.571 12.257 1.00 0.00 N
 ATOM 1451 CA SER A 99118.818 -6.903 13.328 1.00 0.00 C
 ATOM 1452 C SER A 99119.407 -6.553 14.690 1.00 0.00 C
 ATOM 1453 O SER A 99120.557 -6.884 14.983 1.00 0.00 O
 ATOM 1454 CB SER A 99118.462 -8.390 13.279 1.00 0.00 C
 ATOM 1455 OG SER A 99118.677 -8.924 11.984 1.00 0.00 O
 ATOM 1456 H SER A 99120.583 -7.081 12.174 1.00 0.00 H
 ATOM 1457 HA SER A 99117.920 -6.322 13.178 1.00 0.00 H
 ATOM 1458 1HB SER A 99119.079 -8.929 13.983 1.00 0.00 H
 ATOM 1459 2HB SER A 99117.422 -8.518 13.540 1.00 0.00 H
 ATOM 1460 HG SER A 99119.277 -9.671 12.041 1.00 0.00 H
 ATOM 1461 N GLY A 100118.614 -5.885 15.520 1.00 0.00 N
 ATOM 1462 CA GLY A 100119.076 -5.501 16.842 1.00 0.00 C
 ATOM 1463 C GLY A 100118.068 -5.831 17.927 1.00 0.00 C
 ATOM 1464 O GLY A 100116.862 -5.824 17.680 1.00 0.00 O
 ATOM 1465 H GLY A 100117.707 -5.647 15.233 1.00 0.00 H
 ATOM 1466 1HA GLY A 100119.999 -6.020 17.052 1.00 0.00 H
 ATOM 1467 2HA GLY A 100119.262 -4.437 16.850 1.00 0.00 H
 ATOM 1468 N PRO A 101118.536 -6.127 19.153 1.00 0.00 N
 ATOM 1469 CA PRO A 101117.654 -6.460 20.276 1.00 0.00 C
 ATOM 1470 C PRO A 101116.891 -5.245 20.792 1.00 0.00 C
 ATOM 1471 O PRO A 101117.052 -4.840 21.944 1.00 0.00 O
 ATOM 1472 CB PRO A 101118.620 -6.980 21.341 1.00 0.00 C
 ATOM 1473 CG PRO A 101119.916 -6.311 21.034 1.00 0.00 C

ATOM 1474 CD PRO A 101119.960 -6.160 19.538 1.00 0.00 C
 ATOM 1475 HA PRO A 101116.954 -7.238 20.010 1.00 0.00 H
 ATOM 1476 1HB PRO A 101118.258 -6.710 22.322 1.00 0.00 H
 ATOM 1477 2HB PRO A 101118.705 -8.054 21.263 1.00 0.00 H
 ATOM 1478 1HG PRO A 101119.950 -5.343 21.511 1.00 0.00 H
 ATOM 1479 2HG PRO A 101120.736 -6.926 21.373 1.00 0.00 H
 ATOM 1480 1HD PRO A 101120.453 -5.238 19.267 1.00 0.00 H
 ATOM 1481 2HD PRO A 101120.461 -7.003 19.088 1.00 0.00 H
 ATOM 1482 N SER A 102116.057 -4.667 19.933 1.00 0.00 N
 ATOM 1483 CA SER A 102115.268 -3.498 20.303 1.00 0.00 C
 ATOM 1484 C SER A 102113.913 -3.913 20.867 1.00 0.00 C
 ATOM 1485 O SER A 102113.606 -3.648 22.030 1.00 0.00 O
 ATOM 1486 CB SER A 102115.071 -2.585 19.091 1.00 0.00 C
 ATOM 1487 OG SER A 102114.531 -1.334 19.478 1.00 0.00 O
 ATOM 1488 H SER A 102115.971 -5.036 19.029 1.00 0.00 H
 ATOM 1489 HA SER A 102115.812 -2.959 21.064 1.00 0.00 H
 ATOM 1490 1HB SER A 102116.024 -2.418 18.611 1.00 0.00 H
 ATOM 1491 2HB SER A 102114.394 -3.057 18.394 1.00 0.00 H
 ATOM 1492 HG SER A 102115.179 -0.642 19.319 1.00 0.00 H
 ATOM 1493 N SER A 103113.105 -4.563 20.036 1.00 0.00 N
 ATOM 1494 CA SER A 103111.783 -5.015 20.452 1.00 0.00 C
 ATOM 1495 C SER A 103111.266 -6.112 19.527 1.00 0.00 C
 ATOM 1496 O SER A 103111.769 -6.290 18.418 1.00 0.00 O
 ATOM 1497 CB SER A 103110.802 -3.840 20.466 1.00 0.00 C
 ATOM 1498 OG SER A 103111.343 -2.733 21.164 1.00 0.00 O
 ATOM 1499 H SER A 103113.407 -4.745 19.121 1.00 0.00 H
 ATOM 1500 HA SER A 103111.868 -5.413 21.452 1.00 0.00 H
 ATOM 1501 1HB SER A 103110.587 -3.541 19.452 1.00 0.00 H
 ATOM 1502 2HB SER A 103109.887 -4.146 20.952 1.00 0.00 H
 ATOM 1503 HG SER A 103111.681 -3.022 22.014 1.00 0.00 H
 ATOM 1504 N GLY A 104110.261 -6.846 19.992 1.00 0.00 N

ATOM 1505 CA GLY A 104109.694 -7.916 19.194 1.00 0.00 C
 ATOM 1506 C GLY A 104108.344 -8.374 19.712 1.00 0.00 C
 ATOM 1507 O GLY A 104108.159 -9.597 19.890 1.00 0.00 O
 ATOM 1508 OXT GLY A 104107.472 -7.510 19.941 1.00 0.00 O
 ATOM 1509 H GLY A 104109.901 -6.658 20.885 1.00 0.00 H
 ATOM 1510 1HA GLY A 104109.578 -7.571 18.178 1.00 0.00 H
 ATOM 1511 2HA GLY A 104110.373 -8.756 19.203 1.00 0.00 H
 TER 1512 GLY A 104
 ENDMDL

Three-Dimensional Structure Coordinate Table 6

ATOM 1 N GLY A 1112.318 9.750 -2.270 1.00 0.00 N
 ATOM 2 CA GLY A 1111.240 9.201 -3.139 1.00 0.00 C
 ATOM 3 C GLY A 1110.691 7.886 -2.623 1.00 0.00 C
 ATOM 4 O GLY A 1109.480 7.663 -2.635 1.00 0.00 O
 ATOM 5 1H GLY A 1113.178 9.172 -2.358 1.00 0.00 H
 ATOM 6 2H GLY A 1112.012 9.746 -1.276 1.00 0.00 H
 ATOM 7 3H GLY A 1112.539 10.727 -2.549 1.00 0.00 H
 ATOM 8 1HA GLY A 1110.435 9.918 -3.192 1.00 0.00 H
 ATOM 9 2HA GLY A 1111.637 9.047 -4.132 1.00 0.00 H
 ATOM10 N SER A 2111.584 7.013 -2.167 1.00 0.00 N
 ATOM11 CA SER A 2111.182 5.712 -1.643 1.00 0.00 C
 ATOM12 C SER A 2112.008 5.342 -0.415 1.00 0.00 C
 ATOM13 O SER A 2111.463 4.944 0.615 1.00 0.00 O
 ATOM14 CB SER A 2111.337 4.636 -2.718 1.00 0.00 C
 ATOM15 OG SER A 2110.409 4.831 -3.772 1.00 0.00 O
 ATOM16 H SER A 2112.534 7.249 -2.182 1.00 0.00 H
 ATOM17 HA SER A 2110.143 5.776 -1.357 1.00 0.00 H
 ATOM18 1HB SER A 2112.337 4.677 -3.125 1.00 0.00 H
 ATOM19 2HB SER A 2111.166 3.664 -2.280 1.00 0.00 H
 ATOM20 HG SER A 2109.545 5.031 -3.405 1.00 0.00 H

ATOM21	N	SER A	3113.325	5.477	-0.531	1.00	0.00	N
ATOM22	CA	SER A	3114.226	5.157	0.571	1.00	0.00	C
ATOM23	C	SER A	3114.354	6.336	1.530	1.00	0.00	C
ATOM24	O	SER A	3114.036	6.223	2.713	1.00	0.00	O
ATOM25	CB	SER A	3115.604	4.770	0.033	1.00	0.00	C
ATOM26	OG	SER A	3116.188	5.838	-0.692	1.00	0.00	O
ATOM27	H	SER A	3113.700	5.799	-1.377	1.00	0.00	H
ATOM28	HA	SER A	3113.809	4.316	1.105	1.00	0.00	H
ATOM29	1HB	SER A	3116.252	4.515	0.859	1.00	0.00	H
ATOM30	2HB	SER A	3115.506	3.917	-0.623	1.00	0.00	H
ATOM31	HG	SER A	3117.117	5.913	-0.460	1.00	0.00	H
ATOM32	N	GLY A	4114.820	7.466	1.009	1.00	0.00	N
ATOM33	CA	GLY A	4114.983	8.649	1.833	1.00	0.00	C
ATOM34	C	GLY A	4116.174	8.550	2.765	1.00	0.00	C
ATOM35	O	GLY A	4116.069	8.004	3.863	1.00	0.00	O
ATOM36	H	GLY A	4115.058	7.497	0.060	1.00	0.00	H
ATOM37	1HA	GLY A	4115.113	9.507	1.190	1.00	0.00	H
ATOM38	2HA	GLY A	4114.089	8.787	2.424	1.00	0.00	H
ATOM39	N	SER A	5117.312	9.078	2.326	1.00	0.00	N
ATOM40	CA	SER A	5118.529	9.046	3.127	1.00	0.00	C
ATOM41	C	SER A	5119.241	10.395	3.092	1.00	0.00	C
ATOM42	O	SER A	5119.252	11.074	2.066	1.00	0.00	O
ATOM43	CB	SER A	5119.468	7.948	2.623	1.00	0.00	C
ATOM44	OG	SER A	5119.748	8.109	1.244	1.00	0.00	O
ATOM45	H	SER A	5117.334	9.500	1.441	1.00	0.00	H
ATOM46	HA	SER A	5118.249	8.827	4.147	1.00	0.00	H
ATOM47	1HB	SER A	5120.397	7.991	3.173	1.00	0.00	H
ATOM48	2HB	SER A	5119.006	6.984	2.774	1.00	0.00	H
ATOM49	HG	SER A	5120.660	7.865	1.070	1.00	0.00	H
ATOM50	N	SER A	6119.832	10.776	4.219	1.00	0.00	N
ATOM51	CA	SER A	6120.546	12.044	4.317	1.00	0.00	C

ATOM52 C SER A 6121.965 11.832 4.834 1.00 0.00 C
 ATOM53 O SER A 6122.531 12.701 5.498 1.00 0.00 O
 ATOM54 CB SER A 6119.794 13.006 5.238 1.00 0.00 C
 ATOM55 OG SER A 6118.457 13.187 4.805 1.00 0.00 O
 ATOM56 H SER A 6119.789 10.190 5.003 1.00 0.00 H
 ATOM57 HA SER A 6120.597 12.473 3.327 1.00 0.00 H
 ATOM58 1HB SER A 6119.782 12.606 6.240 1.00 0.00 H
 ATOM59 2HB SER A 6120.292 13.964 5.238 1.00 0.00 H
 ATOM60 HG SER A 6118.443 13.319 3.854 1.00 0.00 H
 ATOM61 N GLY A 7122.535 10.671 4.527 1.00 0.00 N
 ATOM62 CA GLY A 7123.883 10.367 4.969 1.00 0.00 C
 ATOM63 C GLY A 7124.017 8.950 5.488 1.00 0.00 C
 ATOM64 O GLY A 7123.400 8.587 6.490 1.00 0.00 O
 ATOM65 H GLY A 7122.036 10.016 3.995 1.00 0.00 H
 ATOM66 1HA GLY A 7124.561 10.500 4.139 1.00 0.00 H
 ATOM67 2HA GLY A 7124.155 11.054 5.756 1.00 0.00 H
 ATOM68 N LEU A 8124.825 8.144 4.805 1.00 0.00 N
 ATOM69 CA LEU A 8125.038 6.758 5.203 1.00 0.00 C
 ATOM70 C LEU A 8126.306 6.621 6.038 1.00 0.00 C
 ATOM71 O LEU A 8126.247 6.510 7.263 1.00 0.00 O
 ATOM72 CB LEU A 8125.123 5.858 3.969 1.00 0.00 C
 ATOM73 CG LEU A 8123.782 5.319 3.467 1.00 0.00 C
 ATOM74 CD1 LEU A 8123.953 4.629 2.123 1.00 0.00 C
 ATOM75 CD2 LEU A 8123.178 4.364 4.486 1.00 0.00 C
 ATOM76 H LEU A 8125.289 8.492 4.014 1.00 0.00 H
 ATOM77 HA LEU A 8124.196 6.453 5.801 1.00 0.00 H
 ATOM78 1HB LEU A 8125.583 6.421 3.169 1.00 0.00 H
 ATOM79 2HB LEU A 8125.757 5.017 4.205 1.00 0.00 H
 ATOM80 HG LEU A 8123.097 6.144 3.333 1.00 0.00 H
 ATOM81 1HD1 LEU A 8123.170 3.896 1.992 1.00 0.00 H
 ATOM82 2HD1 LEU A 8124.915 4.140 2.089 1.00 0.00 H

ATOM83	3HD1	LEU A	8123.893	5.362	1.331	1.00	0.00	H
ATOM84	1HD2	LEU A	8123.006	4.890	5.414	1.00	0.00	H
ATOM85	2HD2	LEU A	8123.859	3.544	4.658	1.00	0.00	H
ATOM86	3HD2	LEU A	8122.241	3.982	4.110	1.00	0.00	H
ATOM87	N	ALAA	9127.450	6.628	5.367	1.00	0.00	N
ATOM88	CA	ALAA	9128.735	6.505	6.044	1.00	0.00	C
ATOM89	C	ALAA	9129.891	6.773	5.085	1.00	0.00	C
ATOM90	O	ALAA	9130.601	5.854	4.679	1.00	0.00	O
ATOM91	CB	ALAA	9128.872	5.123	6.665	1.00	0.00	C
ATOM92	H	ALAA	9127.429	6.720	4.392	1.00	0.00	H
ATOM93	HA	ALAA	9128.764	7.235	6.839	1.00	0.00	H
ATOM94	1HB	ALAA	9127.891	4.724	6.876	1.00	0.00	H
ATOM95	2HB	ALAA	9129.436	5.195	7.583	1.00	0.00	H
ATOM96	3HB	ALAA	9129.387	4.468	5.978	1.00	0.00	H
ATOM97	N	META	10130.074	8.041	4.727	1.00	0.00	N
ATOM98	CA	META	10131.144	8.429	3.816	1.00	0.00	C
ATOM99	C	META	10131.191	9.946	3.646	1.00	0.00	C
ATOM 100	O	META	10130.954	10.465	2.554	1.00	0.00	O
ATOM 101	CB	META	10130.955	7.754	2.457	1.00	0.00	C
ATOM 102	CG	META	10129.539	7.863	1.913	1.00	0.00	C
ATOM 103	SD	META	10129.407	9.023	0.539	1.00	0.00	S
ATOM 104	CE	META	10129.163	7.897	-0.833	1.00	0.00	C
ATOM 105	H	META	10129.476	8.729	5.084	1.00	0.00	H
ATOM 106	HA	META	10132.078	8.099	4.245	1.00	0.00	H
ATOM 107	1HB	META	10131.628	8.210	1.746	1.00	0.00	H
ATOM 108	2HB	META	10131.202	6.707	2.551	1.00	0.00	H
ATOM 109	1HG	META	10129.223	6.888	1.573	1.00	0.00	H
ATOM 110	2HG	META	10128.887	8.193	2.709	1.00	0.00	H
ATOM 111	1HE	META	10130.124	7.587	-1.218	1.00	0.00	H
ATOM 112	2HE	META	10128.607	8.395	-1.613	1.00	0.00	H
ATOM 113	3HE	META	10128.615	7.031	-0.494	1.00	0.00	H

ATOM	114	N	PRO A	11131.502	10.682	4.727	1.00	0.00	N
ATOM	115	CA	PRO A	11131.579	12.145	4.688	1.00	0.00	C
ATOM	116	C	PRO A	11132.593	12.645	3.660	1.00	0.00	C
ATOM	117	O	PRO A	11132.293	13.544	2.875	1.00	0.00	O
ATOM	118	CB	PRO A	11132.019	12.534	6.104	1.00	0.00	C
ATOM	119	CG	PRO A	11131.698	11.352	6.955	1.00	0.00	C
ATOM	120	CD	PRO A	11131.801	10.145	6.065	1.00	0.00	C
ATOM	121	HA	PRO A	11130.615	12.582	4.476	1.00	0.00	H
ATOM	122	1HB	PRO A	11133.076	12.749	6.109	1.00	0.00	H
ATOM	123	2HB	PRO A	11131.469	13.407	6.424	1.00	0.00	H
ATOM	124	1HG	PRO A	11132.411	11.280	7.761	1.00	0.00	H
ATOM	125	2HG	PRO A	11130.696	11.444	7.348	1.00	0.00	H
ATOM	126	1HD	PRO A	11132.798	9.733	6.102	1.00	0.00	H
ATOM	127	2HD	PRO A	11131.072	9.402	6.353	1.00	0.00	H
ATOM	128	N	PRO A	12133.809	12.066	3.642	1.00	0.00	N
ATOM	129	CA	PRO A	12134.853	12.465	2.692	1.00	0.00	C
ATOM	130	C	PRO A	12134.377	12.375	1.247	1.00	0.00	C
ATOM	131	O	PRO A	12134.926	13.028	0.359	1.00	0.00	O
ATOM	132	CB	PRO A	12135.981	11.461	2.945	1.00	0.00	C
ATOM	133	CG	PRO A	12135.751	10.969	4.331	1.00	0.00	C
ATOM	134	CD	PRO A	12134.262	10.980	4.532	1.00	0.00	C
ATOM	135	HA	PRO A	12135.206	13.467	2.892	1.00	0.00	H
ATOM	136	1HB	PRO A	12135.918	10.658	2.225	1.00	0.00	H
ATOM	137	2HB	PRO A	12136.935	11.957	2.856	1.00	0.00	H
ATOM	138	1HG	PRO A	12136.135	9.965	4.434	1.00	0.00	H
ATOM	139	2HG	PRO A	12136.229	11.629	5.040	1.00	0.00	H
ATOM	140	1HD	PRO A	12133.834	10.034	4.236	1.00	0.00	H
ATOM	141	2HD	PRO A	12134.023	11.198	5.561	1.00	0.00	H
ATOM	142	N	GLY A	13133.351	11.559	1.017	1.00	0.00	N
ATOM	143	CA	GLY A	13132.818	11.397	-0.322	1.00	0.00	C
ATOM	144	C	GLY A	13133.068	10.012	-0.886	1.00	0.00	C

ATOM	145	O	GLY A	13132.330	9.545	-1.754	1.00	0.00	O
ATOM	146	H	GLY A	13132.954	11.064	1.765	1.00	0.00	H
ATOM	147	1HA	GLY A	13131.753	11.577	-0.298	1.00	0.00	H
ATOM	148	2HA	GLY A	13133.278	12.127	-0.972	1.00	0.00	H
ATOM	149	N	ASN A	14134.112	9.353	-0.393	1.00	0.00	N
ATOM	150	CA	ASN A	14134.459	8.014	-0.854	1.00	0.00	C
ATOM	151	C	ASN A	14133.299	7.045	-0.640	1.00	0.00	C
ATOM	152	O	ASN A	14132.195	7.453	-0.284	1.00	0.00	O
ATOM	153	CB	ASN A	14135.703	7.506	-0.122	1.00	0.00	C
ATOM	154	CG	ASN A	14136.823	8.529	-0.108	1.00	0.00	C
ATOM	155	OD1	ASN A	14136.609	9.697	0.216	1.00	0.00	O
ATOM	156	ND2	ASN A	14138.026	8.093	-0.460	1.00	0.00	N
ATOM	157	H	ASN A	14134.664	9.778	0.297	1.00	0.00	H
ATOM	158	HA	ASN A	14134.672	8.072	-1.911	1.00	0.00	H
ATOM	159	1HB	ASN A	14135.442	7.272	0.899	1.00	0.00	H
ATOM	160	2HB	ASN A	14136.062	6.613	-0.612	1.00	0.00	H
ATOM	161	1HD2	ASN A	14138.123	7.149	-0.706	1.00	0.00	H
ATOM	162	2HD2	ASN A	14138.769	8.733	-0.460	1.00	0.00	H
ATOM	163	N	SER A	15133.559	5.761	-0.861	1.00	0.00	N
ATOM	164	CA	SER A	15132.538	4.734	-0.693	1.00	0.00	C
ATOM	165	C	SER A	15132.234	4.506	0.785	1.00	0.00	C
ATOM	166	O	SER A	15131.163	4.867	1.271	1.00	0.00	O
ATOM	167	CB	SER A	15132.989	3.423	-1.341	1.00	0.00	C
ATOM	168	OG	SER A	15132.025	2.403	-1.154	1.00	0.00	O
ATOM	169	H	SER A	15134.460	5.496	-1.144	1.00	0.00	H
ATOM	170	HA	SER A	15131.639	5.077	-1.184	1.00	0.00	H
ATOM	171	1HB	SER A	15133.130	3.578	-2.400	1.00	0.00	H
ATOM	172	2HB	SER A	15133.921	3.108	-0.896	1.00	0.00	H
ATOM	173	HG	SER A	15132.121	2.027	-0.276	1.00	0.00	H
ATOM	174	N	HIS A	16133.184	3.902	1.492	1.00	0.00	N
ATOM	175	CA	HIS A	16133.019	3.626	2.914	1.00	0.00	C

ATOM	176	C	HIS A	16133.864	4.578	3.754	1.00	0.00	C
ATOM	177	O	HIS A	16133.441	5.026	4.820	1.00	0.00	O
ATOM	178	CB	HIS A	16133.401	2.176	3.221	1.00	0.00	C
ATOM	179	CG	HIS A	16132.222	1.262	3.354	1.00	0.00	C
ATOM	180	ND1	HIS A	16131.448	1.193	4.493	1.00	0.00	N
ATOM	181	CD2	HIS A	16131.686	0.375	2.482	1.00	0.00	C
ATOM	182	CE1	HIS A	16130.487	0.303	4.316	1.00	0.00	C
ATOM	183	NE2	HIS A	16130.610	-0.207	3.104	1.00	0.00	N
ATOM	184	H	HIS A	16134.016	3.638	1.047	1.00	0.00	H
ATOM	185	HA	HIS A	16131.978	3.775	3.162	1.00	0.00	H
ATOM	186	1HB	HIS A	16134.024	1.800	2.424	1.00	0.00	H
ATOM	187	2HB	HIS A	16133.953	2.144	4.149	1.00	0.00	H
ATOM	188	HD1	HIS A	16131.582	1.718	5.309	1.00	0.00	H
ATOM	189	HD2	HIS A	16132.040	0.165	1.482	1.00	0.00	H
ATOM	190	HE1	HIS A	16129.730	0.038	5.039	1.00	0.00	H
ATOM	191	HE2	HIS A	16129.981	-0.833	2.688	1.00	0.00	H
ATOM	192	N	GLY A	17135.063	4.882	3.267	1.00	0.00	N
ATOM	193	CA	GLY A	17135.949	5.778	3.985	1.00	0.00	C
ATOM	194	C	GLY A	17137.401	5.349	3.901	1.00	0.00	C
ATOM	195	O	GLY A	17138.064	5.173	4.923	1.00	0.00	O
ATOM	196	H	GLY A	17135.348	4.495	2.413	1.00	0.00	H
ATOM	197	1HA	GLY A	17135.854	6.771	3.570	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.654	5.805	5.024	1.00	0.00	H
ATOM	199	N	LEU A	18137.897	5.182	2.678	1.00	0.00	N
ATOM	200	CA	LEU A	18139.279	4.771	2.465	1.00	0.00	C
ATOM	201	C	LEU A	18140.246	5.872	2.888	1.00	0.00	C
ATOM	202	O	LEU A	18140.497	6.814	2.136	1.00	0.00	O
ATOM	203	CB	LEU A	18139.506	4.415	0.994	1.00	0.00	C
ATOM	204	CG	LEU A	18138.484	3.445	0.398	1.00	0.00	C
ATOM	205	CD1	LEU A	18138.481	3.540	-1.120	1.00	0.00	C
ATOM	206	CD2	LEU A	18138.781	2.021	0.844	1.00	0.00	C

ATOM	207	H	LEU A	18137.318	5.338	1.903	1.00	0.00	H
ATOM	208	HA	LEU A	18139.462	3.895	3.070	1.00	0.00	H
ATOM	209	1HB	LEU A	18139.484	5.328	0.417	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.486	3.972	0.900	1.00	0.00	H
ATOM	211	HG	LEU A	18137.498	3.709	0.751	1.00	0.00	H
ATOM	212	1HD1	LEU A	18138.860	4.506	-1.421	1.00	0.00	H
ATOM	213	2HD1	LEU A	18137.472	3.419	-1.485	1.00	0.00	H
ATOM	214	3HD1	LEU A	18139.109	2.763	-1.530	1.00	0.00	H
ATOM	215	1HD2	LEU A	18139.591	1.619	0.254	1.00	0.00	H
ATOM	216	2HD2	LEU A	18137.899	1.411	0.709	1.00	0.00	H
ATOM	217	3HD2	LEU A	18139.061	2.021	1.887	1.00	0.00	H
ATOM	218	N	GLU A	19140.783	5.748	4.096	1.00	0.00	N
ATOM	219	CA	GLU A	19141.722	6.733	4.621	1.00	0.00	C
ATOM	220	C	GLU A	19142.809	6.061	5.452	1.00	0.00	C
ATOM	221	O	GLU A	19142.810	4.843	5.622	1.00	0.00	O
ATOM	222	CB	GLU A	19140.984	7.772	5.467	1.00	0.00	C
ATOM	223	CG	GLU A	19140.233	7.174	6.645	1.00	0.00	C
ATOM	224	CD	GLU A	19139.754	8.226	7.625	1.00	0.00	C
ATOM	225	OE1	GLU A	19140.533	9.155	7.928	1.00	0.00	O
ATOM	226	OE2	GLU A	19138.599	8.123	8.091	1.00	0.00	O
ATOM	227	H	GLU A	19140.544	4.976	4.650	1.00	0.00	H
ATOM	228	HA	GLU A	19142.184	7.230	3.779	1.00	0.00	H
ATOM	229	1HB	GLU A	19141.702	8.483	5.849	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.274	8.291	4.841	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.375	6.635	6.272	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.888	6.490	7.164	1.00	0.00	H
ATOM	233	N	VAL A	20143.732	6.865	5.969	1.00	0.00	N
ATOM	234	CA	VAL A	20144.825	6.349	6.785	1.00	0.00	C
ATOM	235	C	VAL A	20144.297	5.620	8.015	1.00	0.00	C
ATOM	236	O	VAL A	20143.530	6.181	8.799	1.00	0.00	O
ATOM	237	CB	VAL A	20145.770	7.479	7.235	1.00	0.00	C

ATOM	238	CG1	VAL A	20146.993	6.908	7.939	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.181	8.337	6.049	1.00	0.00	C
ATOM	240	H	VAL A	20143.678	7.829	5.798	1.00	0.00	H
ATOM	241	HA	VAL A	20145.391	5.654	6.182	1.00	0.00	H
ATOM	242	HB	VAL A	20145.240	8.105	7.938	1.00	0.00	H
ATOM	243	1HG1	VAL A	20146.795	6.830	8.997	1.00	0.00	H
ATOM	244	2HG1	VAL A	20147.838	7.559	7.777	1.00	0.00	H
ATOM	245	3HG1	VAL A	20147.211	5.928	7.540	1.00	0.00	H
ATOM	246	1HG2	VAL A	20145.398	9.046	5.828	1.00	0.00	H
ATOM	247	2HG2	VAL A	20146.348	7.705	5.189	1.00	0.00	H
ATOM	248	3HG2	VAL A	20147.091	8.868	6.287	1.00	0.00	H
ATOM	249	N	GLY A	21144.711	4.369	8.179	1.00	0.00	N
ATOM	250	CA	GLY A	21144.269	3.583	9.316	1.00	0.00	C
ATOM	251	C	GLY A	21143.228	2.548	8.939	1.00	0.00	C
ATOM	252	O	GLY A	21143.210	1.447	9.489	1.00	0.00	O
ATOM	253	H	GLY A	21145.322	3.975	7.522	1.00	0.00	H
ATOM	254	1HA	GLY A	21145.123	3.080	9.745	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.847	4.248	10.056	1.00	0.00	H
ATOM	256	N	SER A	22142.359	2.901	7.997	1.00	0.00	N
ATOM	257	CA	SER A	22141.310	1.995	7.546	1.00	0.00	C
ATOM	258	C	SER A	22141.877	0.922	6.622	1.00	0.00	C
ATOM	259	O	SER A	22142.764	1.192	5.812	1.00	0.00	O
ATOM	260	CB	SER A	22140.208	2.774	6.826	1.00	0.00	C
ATOM	261	OG	SER A	22139.268	3.299	7.747	1.00	0.00	O
ATOM	262	H	SER A	22142.425	3.793	7.596	1.00	0.00	H
ATOM	263	HA	SER A	22140.889	1.516	8.417	1.00	0.00	H
ATOM	264	1HB	SER A	22140.649	3.592	6.276	1.00	0.00	H
ATOM	265	2HB	SER A	22139.694	2.116	6.141	1.00	0.00	H
ATOM	266	HG	SER A	22138.475	3.569	7.277	1.00	0.00	H
ATOM	267	N	LEU A	23141.359	-0.295	6.749	1.00	0.00	N
ATOM	268	CA	LEU A	23141.815	-1.410	5.924	1.00	0.00	C

ATOM	269	C	LEU A	23141.296	-1.278	4.496	1.00	0.00	C
ATOM	270	O	LEU A	23140.234	-0.702	4.261	1.00	0.00	O
ATOM	271	CB	LEU A	23141.353	-2.738	6.526	1.00	0.00	C
ATOM	272	CG	LEU A	23141.931	-3.059	7.905	1.00	0.00	C
ATOM	273	CD1	LEU A	23140.954	-3.903	8.709	1.00	0.00	C
ATOM	274	CD2	LEU A	23143.268	-3.773	7.769	1.00	0.00	C
ATOM	275	H	LEU A	23140.655	-0.449	7.412	1.00	0.00	H
ATOM	276	HA	LEU A	23142.894	-1.388	5.907	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.276	-2.718	6.605	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.633	-3.531	5.850	1.00	0.00	H
ATOM	279	HG	LEU A	23142.096	-2.137	8.443	1.00	0.00	H
ATOM	280	1HD1	LEU A	23140.921	-4.902	8.302	1.00	0.00	H
ATOM	281	2HD1	LEU A	23139.970	-3.460	8.659	1.00	0.00	H
ATOM	282	3HD1	LEU A	23141.277	-3.944	9.739	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.908	-3.500	8.594	1.00	0.00	H
ATOM	284	2HD2	LEU A	23143.736	-3.485	6.840	1.00	0.00	H
ATOM	285	3HD2	LEU A	23143.107	-4.841	7.776	1.00	0.00	H
ATOM	286	N	ALA A	24142.055	-1.814	3.546	1.00	0.00	N
ATOM	287	CA	ALA A	24141.672	-1.757	2.140	1.00	0.00	C
ATOM	288	C	ALA A	24142.245	-2.941	1.367	1.00	0.00	C
ATOM	289	O	ALA A	24143.206	-3.573	1.804	1.00	0.00	O
ATOM	290	CB	ALA A	24142.135	-0.447	1.520	1.00	0.00	C
ATOM	291	H	ALA A	24142.890	-2.260	3.795	1.00	0.00	H
ATOM	292	HA	ALA A	24140.593	-1.793	2.086	1.00	0.00	H
ATOM	293	1HB	ALA A	24143.026	-0.105	2.025	1.00	0.00	H
ATOM	294	2HB	ALA A	24141.356	0.295	1.623	1.00	0.00	H
ATOM	295	3HB	ALA A	24142.350	-0.601	0.473	1.00	0.00	H
ATOM	296	N	GLU A	25141.647	-3.236	0.217	1.00	0.00	N
ATOM	297	CA	GLU A	25142.098	-4.344	-0.617	1.00	0.00	C
ATOM	298	C	GLU A	25142.441	-3.863	-2.023	1.00	0.00	C
ATOM	299	O	GLU A	25141.810	-2.945	-2.547	1.00	0.00	O

ATOM	300	CB	GLU A	25141.023	-5.430	-0.684	1.00	0.00	C
ATOM	301	CG	GLU A	25141.523	-6.747	-1.252	1.00	0.00	C
ATOM	302	CD	GLU A	25140.399	-7.623	-1.770	1.00	0.00	C
ATOM	303	OE1	GLU A	25140.407	-7.947	-2.976	1.00	0.00	O
ATOM	304	OE2	GLU A	25139.511	-7.986	-0.970	1.00	0.00	O
ATOM	305	H	GLU A	25140.885	-2.695	-0.079	1.00	0.00	H
ATOM	306	HA	GLU A	25142.987	-4.758	-0.164	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.646	-5.611	0.311	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.212	-5.078	-1.306	1.00	0.00	H
ATOM	309	1HG	GLU A	25142.200	-6.540	-2.066	1.00	0.00	H
ATOM	310	2HG	GLU A	25142.048	-7.283	-0.475	1.00	0.00	H
ATOM	311	N	VAL A	26143.445	-4.489	-2.629	1.00	0.00	N
ATOM	312	CA	VAL A	26143.872	-4.124	-3.974	1.00	0.00	C
ATOM	313	C	VAL A	26143.444	-5.178	-4.990	1.00	0.00	C
ATOM	314	O	VAL A	26143.415	-6.370	-4.688	1.00	0.00	O
ATOM	315	CB	VAL A	26145.399	-3.944	-4.051	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.804	-3.375	-5.401	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.890	-3.054	-2.919	1.00	0.00	C
ATOM	318	H	VAL A	26143.910	-5.212	-2.160	1.00	0.00	H
ATOM	319	HA	VAL A	26143.406	-3.183	-4.229	1.00	0.00	H
ATOM	320	HB	VAL A	26145.861	-4.915	-3.942	1.00	0.00	H
ATOM	321	1HG1	VAL A	26146.882	-3.336	-5.467	1.00	0.00	H
ATOM	322	2HG1	VAL A	26145.401	-2.378	-5.506	1.00	0.00	H
ATOM	323	3HG1	VAL A	26145.418	-4.005	-6.188	1.00	0.00	H
ATOM	324	1HG2	VAL A	26145.976	-3.637	-2.013	1.00	0.00	H
ATOM	325	2HG2	VAL A	26145.186	-2.250	-2.763	1.00	0.00	H
ATOM	326	3HG2	VAL A	26146.855	-2.643	-3.175	1.00	0.00	H
ATOM	327	N	LYS A	27143.116	-4.729	-6.197	1.00	0.00	N
ATOM	328	CA	LYS A	27142.690	-5.633	-7.259	1.00	0.00	C
ATOM	329	C	LYS A	27143.880	-6.082	-8.101	1.00	0.00	C
ATOM	330	O	LYS A	27144.102	-5.577	-9.201	1.00	0.00	O

ATOM	331	CB	LYS A	27141.647	-4.954	-8.149	1.00	0.00	C
ATOM	332	CG	LYS A	27140.301	-4.761	-7.470	1.00	0.00	C
ATOM	333	CD	LYS A	27139.285	-5.786	-7.945	1.00	0.00	C
ATOM	334	CE	LYS A	27139.368	-7.071	-7.135	1.00	0.00	C
ATOM	335	NZ	LYS A	27138.350	-7.109	-6.048	1.00	0.00	N
ATOM	336	H	LYS A	27143.160	-3.766	-6.378	1.00	0.00	H
ATOM	337	HA	LYS A	27142.245	-6.501	-6.796	1.00	0.00	H
ATOM	338	1HB	LYS A	27142.021	-3.983	-8.443	1.00	0.00	H
ATOM	339	2HB	LYS A	27141.499	-5.556	-9.034	1.00	0.00	H
ATOM	340	1HG	LYS A	27140.429	-4.864	-6.403	1.00	0.00	H
ATOM	341	2HG	LYS A	27139.933	-3.771	-7.698	1.00	0.00	H
ATOM	342	1HD	LYS A	27138.293	-5.372	-7.841	1.00	0.00	H
ATOM	343	2HD	LYS A	27139.475	-6.014	-8.984	1.00	0.00	H
ATOM	344	1HE	LYS A	27139.208	-7.909	-7.795	1.00	0.00	H
ATOM	345	2HE	LYS A	27140.353	-7.141	-6.697	1.00	0.00	H
ATOM	346	1HZ	LYS A	27137.554	-6.482	-6.282	1.00	0.00	H
ATOM	347	2HZ	LYS A	27138.772	-6.795	-5.152	1.00	0.00	H
ATOM	348	3HZ	LYS A	27137.992	-8.078	-5.928	1.00	0.00	H
ATOM	349	N	GLU A	28144.644	-7.034	-7.575	1.00	0.00	N
ATOM	350	CA	GLU A	28145.812	-7.553	-8.278	1.00	0.00	C
ATOM	351	C	GLU A	28145.714	-9.064	-8.456	1.00	0.00	C
ATOM	352	O	GLU A	28144.671	-9.664	-8.195	1.00	0.00	O
ATOM	353	CB	GLU A	28147.091	-7.198	-7.514	1.00	0.00	C
ATOM	354	CG	GLU A	28148.178	-6.601	-8.394	1.00	0.00	C
ATOM	355	CD	GLU A	28149.554	-7.148	-8.072	1.00	0.00	C
ATOM	356	OE1	GLU A	28150.418	-7.154	-8.976	1.00	0.00	O
ATOM	357	OE2	GLU A	28149.770	-7.572	-6.918	1.00	0.00	O
ATOM	358	H	GLU A	28144.417	-7.397	-6.694	1.00	0.00	H
ATOM	359	HA	GLU A	28145.846	-7.088	-9.252	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.849	-6.482	-6.743	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.483	-8.092	-7.052	1.00	0.00	H

ATOM	362	IHG	GLU A	28147.952	-6.824	-9.426	1.00	0.00	H
ATOM	363	2HG	GLU A	28148.190	-5.530	-8.252	1.00	0.00	H
ATOM	364	N	ASN A	29146.807	-9.675	-8.902	1.00	0.00	N
ATOM	365	CA	ASN A	29146.843	-11.117	-9.113	1.00	0.00	C
ATOM	366	C	ASN A	29146.916	-11.858	-7.781	1.00	0.00	C
ATOM	367	O	ASN A	29146.049	-12.673	-7.467	1.00	0.00	O
ATOM	368	CB	ASN A	29148.038	-11.495	-9.992	1.00	0.00	C
ATOM	369	CG	ASN A	29147.648	-11.689	-11.445	1.00	0.00	C
ATOM	370	OD1	ASN A	29147.487	-12.817	-11.911	1.00	0.00	O
ATOM	371	ND2	ASN A	29147.495	-10.586	-12.168	1.00	0.00	N
ATOM	372	H	ASN A	29147.608	-9.143	-9.092	1.00	0.00	H
ATOM	373	HA	ASN A	29145.932	-11.400	-9.619	1.00	0.00	H
ATOM	374	1HB	ASN A	29148.778	-10.711	-9.939	1.00	0.00	H
ATOM	375	2HB	ASN A	29148.468	-12.416	-9.627	1.00	0.00	H
ATOM	376	1HD2	ASN A	29147.640	-9.721	-11.730	1.00	0.00	H
ATOM	377	2HD2	ASN A	29147.244	-10.682	-13.110	1.00	0.00	H
ATOM	378	N	PRO A	30147.958	-11.585	-6.976	1.00	0.00	N
ATOM	379	CA	PRO A	30148.142	-12.228	-5.674	1.00	0.00	C
ATOM	380	C	PRO A	30147.254	-11.613	-4.593	1.00	0.00	C
ATOM	381	O	PRO A	30147.455	-10.466	-4.194	1.00	0.00	O
ATOM	382	CB	PRO A	30149.614	-11.962	-5.367	1.00	0.00	C
ATOM	383	CG	PRO A	30149.906	-10.665	-6.040	1.00	0.00	C
ATOM	384	CD	PRO A	30149.040	-10.624	-7.274	1.00	0.00	C
ATOM	385	HA	PRO A	30147.968	-13.291	-5.727	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.757	-11.895	-4.298	1.00	0.00	H
ATOM	387	2HB	PRO A	30150.220	-12.760	-5.769	1.00	0.00	H
ATOM	388	IHG	PRO A	30149.657	-9.846	-5.381	1.00	0.00	H
ATOM	389	2HG	PRO A	30150.949	-10.622	-6.315	1.00	0.00	H
ATOM	390	1HD	PRO A	30148.643	-9.631	-7.420	1.00	0.00	H
ATOM	391	2HD	PRO A	30149.604	-10.936	-8.140	1.00	0.00	H
ATOM	392	N	PRO A	31146.253	-12.366	-4.102	1.00	0.00	N

ATOM	393	CA	PRO A	31145.337	-11.880	-3.063	1.00	0.00	C
ATOM	394	C	PRO A	31146.064	-11.536	-1.768	1.00	0.00	C
ATOM	395	O	PRO A	31146.500	-12.422	-1.034	1.00	0.00	O
ATOM	396	CB	PRO A	31144.378	-13.056	-2.838	1.00	0.00	C
ATOM	397	CG	PRO A	31144.514	-13.909	-4.053	1.00	0.00	C
ATOM	398	CD	PRO A	31145.932	-13.743	-4.514	1.00	0.00	C
ATOM	399	HA	PRO A	31144.781	-11.018	-3.401	1.00	0.00	H
ATOM	400	1HB	PRO A	31144.666	-13.593	-1.946	1.00	0.00	H
ATOM	401	2HB	PRO A	31143.369	-12.685	-2.730	1.00	0.00	H
ATOM	402	1HG	PRO A	31144.319	-14.940	-3.802	1.00	0.00	H
ATOM	403	2HG	PRO A	31143.829	-13.571	-4.817	1.00	0.00	H
ATOM	404	1HD	PRO A	31146.576	-14.455	-4.020	1.00	0.00	H
ATOM	405	2HD	PRO A	31145.997	-13.849	-5.586	1.00	0.00	H
ATOM	406	N	PHE A	32146.191	-10.242	-1.492	1.00	0.00	N
ATOM	407	CA	PHE A	32146.864	-9.781	-0.283	1.00	0.00	C
ATOM	408	C	PHE A	32146.068	-8.670	0.395	1.00	0.00	C
ATOM	409	O	PHE A	32145.464	-7.831	-0.273	1.00	0.00	O
ATOM	410	CB	PHE A	32148.273	-9.285	-0.615	1.00	0.00	C
ATOM	411	CG	PHE A	32148.295	-8.133	-1.580	1.00	0.00	C
ATOM	412	CD1	PHE A	32147.870	-6.875	-1.187	1.00	0.00	C
ATOM	413	CD2	PHE A	32148.741	-8.311	-2.879	1.00	0.00	C
ATOM	414	CE1	PHE A	32147.889	-5.815	-2.073	1.00	0.00	C
ATOM	415	CE2	PHE A	32148.763	-7.254	-3.769	1.00	0.00	C
ATOM	416	CZ	PHE A	32148.337	-6.004	-3.366	1.00	0.00	C
ATOM	417	H	PHE A	32145.822	-9.581	-2.115	1.00	0.00	H
ATOM	418	HA	PHE A	32146.938	-10.618	0.394	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.757	-8.964	0.295	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.839	-10.095	-1.050	1.00	0.00	H
ATOM	421	HD1	PHE A	32147.520	-6.724	-0.176	1.00	0.00	H
ATOM	422	HD2	PHE A	32149.076	-9.288	-3.196	1.00	0.00	H
ATOM	423	HE1	PHE A	32147.554	-4.838	-1.755	1.00	0.00	H

ATOM	424	HE2	PHE A	32149.113	-7.405	-4.780	1.00	0.00	H
ATOM	425	HZ	PHE A	32148.352	-5.177	-4.059	1.00	0.00	H
ATOM	426	N	TYR A	33146.071	-8.673	1.724	1.00	0.00	N
ATOM	427	CA	TYR A	33145.349	-7.666	2.492	1.00	0.00	C
ATOM	428	C	TYR A	33146.315	-6.689	3.153	1.00	0.00	C
ATOM	429	O	TYR A	33147.406	-7.072	3.575	1.00	0.00	O
ATOM	430	CB	TYR A	33144.475	-8.335	3.555	1.00	0.00	C
ATOM	431	CG	TYR A	33143.212	-8.953	2.999	1.00	0.00	C
ATOM	432	CD1	TYR A	33142.857	-10.258	3.318	1.00	0.00	C
ATOM	433	CD2	TYR A	33142.375	-8.232	2.157	1.00	0.00	C
ATOM	434	CE1	TYR A	33141.704	-10.828	2.811	1.00	0.00	C
ATOM	435	CE2	TYR A	33141.220	-8.794	1.647	1.00	0.00	C
ATOM	436	CZ	TYR A	33140.888	-10.091	1.977	1.00	0.00	C
ATOM	437	OH	TYR A	33139.740	-10.655	1.473	1.00	0.00	O
ATOM	438	H	TYR A	33146.571	-9.369	2.199	1.00	0.00	H
ATOM	439	HA	TYR A	33144.715	-7.121	1.809	1.00	0.00	H
ATOM	440	1HB	TYR A	33145.042	-9.116	4.037	1.00	0.00	H
ATOM	441	2HB	TYR A	33144.188	-7.598	4.290	1.00	0.00	H
ATOM	442	HD1	TYR A	33143.497	-10.832	3.971	1.00	0.00	H
ATOM	443	HD2	TYR A	33142.637	-7.216	1.900	1.00	0.00	H
ATOM	444	HE1	TYR A	33141.445	-11.844	3.070	1.00	0.00	H
ATOM	445	HE2	TYR A	33140.581	-8.217	0.994	1.00	0.00	H
ATOM	446	HH	TYR A	33139.799	-10.701	0.515	1.00	0.00	H
ATOM	447	N	GLY A	34145.909	-5.427	3.237	1.00	0.00	N
ATOM	448	CA	GLY A	34146.751	-4.416	3.848	1.00	0.00	C
ATOM	449	C	GLY A	34145.959	-3.219	4.337	1.00	0.00	C
ATOM	450	O	GLY A	34144.841	-2.978	3.884	1.00	0.00	O
ATOM	451	H	GLY A	34145.029	-5.181	2.883	1.00	0.00	H
ATOM	452	1HA	GLY A	34147.273	-4.856	4.684	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.476	-4.081	3.121	1.00	0.00	H
ATOM	454	N	VAL A	35146.541	-2.468	5.266	1.00	0.00	N

ATOM	455	CA	VAL A	35145.884	-1.291	5.818	1.00	0.00	C
ATOM	456	C	VAL A	35146.524	-0.008	5.294	1.00	0.00	C
ATOM	457	O	VAL A	35147.743	0.072	5.144	1.00	0.00	O
ATOM	458	CB	VAL A	35145.936	-1.289	7.360	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.377	-1.253	7.849	1.00	0.00	C
ATOM	460	CG2	VAL A	35145.140	-0.120	7.925	1.00	0.00	C
ATOM	461	H	VAL A	35147.434	-2.712	5.588	1.00	0.00	H
ATOM	462	HA	VAL A	35144.848	-1.314	5.514	1.00	0.00	H
ATOM	463	HB	VAL A	35145.486	-2.206	7.713	1.00	0.00	H
ATOM	464	1HG1	VAL A	35147.393	-1.031	8.905	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.920	-0.489	7.312	1.00	0.00	H
ATOM	466	3HG1	VAL A	35147.841	-2.213	7.675	1.00	0.00	H
ATOM	467	1HG2	VAL A	35144.771	0.491	7.115	1.00	0.00	H
ATOM	468	2HG2	VAL A	35145.777	0.476	8.563	1.00	0.00	H
ATOM	469	3HG2	VAL A	35144.307	-0.497	8.500	1.00	0.00	H
ATOM	470	N	ILE A	36145.694	0.991	5.016	1.00	0.00	N
ATOM	471	CA	ILE A	36146.181	2.269	4.508	1.00	0.00	C
ATOM	472	C	ILE A	36147.115	2.937	5.513	1.00	0.00	C
ATOM	473	O	ILE A	36146.824	2.986	6.708	1.00	0.00	O
ATOM	474	CB	ILE A	36145.017	3.229	4.186	1.00	0.00	C
ATOM	475	CG1	ILE A	36143.994	2.541	3.278	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.541	4.501	3.533	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.827	3.428	2.903	1.00	0.00	C
ATOM	478	H	ILE A	36144.733	0.868	5.157	1.00	0.00	H
ATOM	479	HA	ILE A	36146.727	2.079	3.596	1.00	0.00	H
ATOM	480	HB	ILE A	36144.538	3.502	5.114	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.482	2.233	2.367	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.601	1.671	3.784	1.00	0.00	H
ATOM	483	1HG2	ILE A	36145.386	4.447	2.465	1.00	0.00	H
ATOM	484	2HG2	ILE A	36146.597	4.602	3.738	1.00	0.00	H
ATOM	485	3HG2	ILE A	36145.013	5.354	3.931	1.00	0.00	H

ATOM	486	1HD1	ILE A	36142.347	3.036	2.018	1.00	0.00	H
ATOM	487	2HD1	ILE A	36143.183	4.428	2.706	1.00	0.00	H
ATOM	488	3HD1	ILE A	36142.116	3.452	3.716	1.00	0.00	H
ATOM	489	N	ARG A	37148.237	3.449	5.019	1.00	0.00	N
ATOM	490	CA	ARG A	37149.215	4.113	5.872	1.00	0.00	C
ATOM	491	C	ARG A	37149.395	5.571	5.462	1.00	0.00	C
ATOM	492	O	ARG A	37149.097	6.483	6.232	1.00	0.00	O
ATOM	493	CB	ARG A	37150.558	3.383	5.807	1.00	0.00	C
ATOM	494	CG	ARG A	37150.462	1.902	6.127	1.00	0.00	C
ATOM	495	CD	ARG A	37149.957	1.669	7.543	1.00	0.00	C
ATOM	496	NE	ARG A	37150.921	2.111	8.547	1.00	0.00	N
ATOM	497	CZ	ARG A	37150.615	2.326	9.825	1.00	0.00	C
ATOM	498	NH1	ARG A	37149.373	2.142	10.257	1.00	0.00	N
ATOM	499	NH2	ARG A	37151.552	2.726	10.673	1.00	0.00	N
ATOM	500	H	ARG A	37148.412	3.377	4.057	1.00	0.00	H
ATOM	501	HA	ARG A	37148.847	4.080	6.887	1.00	0.00	H
ATOM	502	1HB	ARG A	37150.964	3.489	4.811	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.237	3.839	6.513	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.779	1.436	5.432	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.441	1.457	6.027	1.00	0.00	H
ATOM	506	1HD	ARG A	37149.036	2.217	7.676	1.00	0.00	H
ATOM	507	2HD	ARG A	37149.770	0.614	7.675	1.00	0.00	H
ATOM	508	HE	ARG A	37151.845	2.255	8.255	1.00	0.00	H
ATOM	509	1HH1	ARG A	37148.661	1.839	9.623	1.00	0.00	H
ATOM	510	2HH1	ARG A	37149.150	2.304	11.218	1.00	0.00	H
ATOM	511	1HH2	ARG A	37152.488	2.866	10.352	1.00	0.00	H
ATOM	512	2HH2	ARG A	37151.322	2.887	11.632	1.00	0.00	H
ATOM	513	N	TRP A	38149.882	5.784	4.244	1.00	0.00	N
ATOM	514	CA	TRP A	38150.100	7.132	3.733	1.00	0.00	C
ATOM	515	C	TRP A	38149.375	7.336	2.406	1.00	0.00	C
ATOM	516	O	TRP A	38149.482	6.516	1.495	1.00	0.00	O

ATOM	517	CB	TRP A	38151.599	7.402	3.559	1.00	0.00	C
ATOM	518	CG	TRP A	38151.898	8.654	2.788	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.099	9.904	3.297	1.00	0.00	C
ATOM	520	CD2	TRP A	38152.022	8.774	1.366	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.341	10.795	2.279	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.299	10.126	1.084	1.00	0.00	C
ATOM	523	CE3	TRP A	38151.926	7.871	0.304	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.481	10.593	-0.216	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.107	8.335	-0.985	1.00	0.00	C
ATOM	526	CH2	TRP A	38152.381	9.685	-1.236	1.00	0.00	C
ATOM	527	H	TRP A	38150.101	5.016	3.675	1.00	0.00	H
ATOM	528	HA	TRP A	38149.700	7.828	4.456	1.00	0.00	H
ATOM	529	1HB	TRP A	38152.056	7.494	4.533	1.00	0.00	H
ATOM	530	2HB	TRP A	38152.049	6.571	3.035	1.00	0.00	H
ATOM	531	HD1	TRP A	38152.068	10.144	4.350	1.00	0.00	H
ATOM	532	HE1	TRP A	38152.516	11.753	2.391	1.00	0.00	H
ATOM	533	HE3	TRP A	38151.715	6.827	0.477	1.00	0.00	H
ATOM	534	HZ2	TRP A	38152.690	11.631	-0.427	1.00	0.00	H
ATOM	535	HZ3	TRP A	38152.037	7.652	-1.818	1.00	0.00	H
ATOM	536	HH2	TRP A	38152.516	10.004	-2.259	1.00	0.00	H
ATOM	537	N	ILE A	39148.646	8.442	2.303	1.00	0.00	N
ATOM	538	CA	ILE A	39147.911	8.766	1.088	1.00	0.00	C
ATOM	539	C	ILE A	39148.340	10.125	0.546	1.00	0.00	C
ATOM	540	O	ILE A	39147.988	11.165	1.104	1.00	0.00	O
ATOM	541	CB	ILE A	39146.391	8.780	1.335	1.00	0.00	C
ATOM	542	CG1	ILE A	39145.961	7.521	2.089	1.00	0.00	C
ATOM	543	CG2	ILE A	39145.640	8.896	0.016	1.00	0.00	C
ATOM	544	CD1	ILE A	39144.572	7.613	2.680	1.00	0.00	C
ATOM	545	H	ILE A	39148.608	9.060	3.063	1.00	0.00	H
ATOM	546	HA	ILE A	39148.130	8.008	0.350	1.00	0.00	H
ATOM	547	HB	ILE A	39146.153	9.647	1.932	1.00	0.00	H

ATOM	548	1HG1	ILE A	39145.977	6.680	1.411	1.00	0.00	H
ATOM	549	2HG1	ILE A	39146.656	7.338	2.897	1.00	0.00	H
ATOM	550	1HG2	ILE A	39144.577	8.847	0.202	1.00	0.00	H
ATOM	551	2HG2	ILE A	39145.930	8.085	-0.636	1.00	0.00	H
ATOM	552	3HG2	ILE A	39145.880	9.839	-0.453	1.00	0.00	H
ATOM	553	1HD1	ILE A	39143.973	8.287	2.086	1.00	0.00	H
ATOM	554	2HD1	ILE A	39144.635	7.984	3.692	1.00	0.00	H
ATOM	555	3HD1	ILE A	39144.116	6.634	2.682	1.00	0.00	H
ATOM	556	N	GLY A	40149.108	10.112	-0.539	1.00	0.00	N
ATOM	557	CA	GLY A	40149.576	11.353	-1.126	1.00	0.00	C
ATOM	558	C	GLY A	40150.128	11.169	-2.526	1.00	0.00	C
ATOM	559	O	GLY A	40149.973	10.107	-3.129	1.00	0.00	O
ATOM	560	H	GLY A	40149.362	9.254	-0.940	1.00	0.00	H
ATOM	561	1HA	GLY A	40148.755	12.052	-1.165	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.351	11.763	-0.498	1.00	0.00	H
ATOM	563	N	GLN A	41150.772	12.210	-3.042	1.00	0.00	N
ATOM	564	CA	GLN A	41151.352	12.170	-4.378	1.00	0.00	C
ATOM	565	C	GLN A	41152.824	12.581	-4.341	1.00	0.00	C
ATOM	566	O	GLN A	41153.146	13.724	-4.012	1.00	0.00	O
ATOM	567	CB	GLN A	41150.574	13.098	-5.310	1.00	0.00	C
ATOM	568	CG	GLN A	41149.068	12.908	-5.240	1.00	0.00	C
ATOM	569	CD	GLN A	41148.312	14.221	-5.293	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.274	14.968	-4.315	1.00	0.00	O
ATOM	571	NE2	GLN A	41147.705	14.509	-6.437	1.00	0.00	N
ATOM	572	H	GLN A	41150.861	13.027	-2.510	1.00	0.00	H
ATOM	573	HA	GLN A	41151.277	11.159	-4.745	1.00	0.00	H
ATOM	574	1HB	GLN A	41150.798	14.121	-5.048	1.00	0.00	H
ATOM	575	2HB	GLN A	41150.892	12.919	-6.325	1.00	0.00	H
ATOM	576	1HG	GLN A	41148.754	12.298	-6.074	1.00	0.00	H
ATOM	577	2HG	GLN A	41148.824	12.406	-4.316	1.00	0.00	H
ATOM	578	1HE2	GLN A	41147.778	13.866	-7.174	1.00	0.00	H

ATOM	579	2HE2	GLN A	41147.211	15.351	-6.500	1.00	0.00	H
ATOM	580	N	PRO A	42153.742	11.656	-4.675	1.00	0.00	N
ATOM	581	CA	PRO A	42155.181	11.939	-4.673	1.00	0.00	C
ATOM	582	C	PRO A	42155.542	13.108	-5.584	1.00	0.00	C
ATOM	583	O	PRO A	42154.782	13.461	-6.486	1.00	0.00	O
ATOM	584	CB	PRO A	42155.808	10.641	-5.194	1.00	0.00	C
ATOM	585	CG	PRO A	42154.786	9.590	-4.928	1.00	0.00	C
ATOM	586	CD	PRO A	42153.455	10.268	-5.079	1.00	0.00	C
ATOM	587	HA	PRO A	42155.542	12.139	-3.674	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.012	10.737	-6.250	1.00	0.00	H
ATOM	589	2HB	PRO A	42156.725	10.442	-4.661	1.00	0.00	H
ATOM	590	1HG	PRO A	42154.883	8.791	-5.647	1.00	0.00	H
ATOM	591	2HG	PRO A	42154.901	9.210	-3.923	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.124	10.226	-6.107	1.00	0.00	H
ATOM	593	2HD	PRO A	42152.724	9.819	-4.424	1.00	0.00	H
ATOM	594	N	PRO A	43156.714	13.726	-5.360	1.00	0.00	N
ATOM	595	CA	PRO A	43157.174	14.860	-6.166	1.00	0.00	C
ATOM	596	C	PRO A	43157.596	14.441	-7.569	1.00	0.00	C
ATOM	597	O	PRO A	43158.768	14.155	-7.816	1.00	0.00	O
ATOM	598	CB	PRO A	43158.377	15.386	-5.384	1.00	0.00	C
ATOM	599	CG	PRO A	43158.887	14.204	-4.634	1.00	0.00	C
ATOM	600	CD	PRO A	43157.681	13.366	-4.305	1.00	0.00	C
ATOM	601	HA	PRO A	43156.419	15.630	-6.233	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.117	15.767	-6.073	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.061	16.171	-4.714	1.00	0.00	H
ATOM	604	1HG	PRO A	43159.573	13.646	-5.253	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.376	14.528	-3.728	1.00	0.00	H
ATOM	606	1HD	PRO A	43157.928	12.316	-4.350	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.298	13.624	-3.329	1.00	0.00	H
ATOM	608	N	GLY A	44156.635	14.406	-8.486	1.00	0.00	N
ATOM	609	CA	GLY A	44156.931	14.021	-9.852	1.00	0.00	C

ATOM	610	C	GLY A	44155.710	13.511	-10.590	1.00	0.00	C
ATOM	611	O	GLY A	44155.412	13.962	-11.696	1.00	0.00	O
ATOM	612	H	GLY A	44155.719	14.645	-8.232	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.323	14.877	-10.378	1.00	0.00	H
ATOM	614	2HA	GLY A	44157.681	13.245	-9.840	1.00	0.00	H
ATOM	615	N	LEU A	45155.002	12.568	-9.979	1.00	0.00	N
ATOM	616	CA	LEU A	45153.807	11.996	-10.589	1.00	0.00	C
ATOM	617	C	LEU A	45152.592	12.203	-9.694	1.00	0.00	C
ATOM	618	O	LEU A	45152.501	11.623	-8.612	1.00	0.00	O
ATOM	619	CB	LEU A	45154.011	10.504	-10.858	1.00	0.00	C
ATOM	620	CG	LEU A	45154.560	9.704	-9.674	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.219	8.227	-9.821	1.00	0.00	C
ATOM	622	CD2	LEU A	45156.066	9.899	-9.551	1.00	0.00	C
ATOM	623	H	LEU A	45155.289	12.247	-9.096	1.00	0.00	H
ATOM	624	HA	LEU A	45153.640	12.503	-11.528	1.00	0.00	H
ATOM	625	1HB	LEU A	45153.060	10.079	-11.144	1.00	0.00	H
ATOM	626	2HB	LEU A	45154.698	10.399	-11.684	1.00	0.00	H
ATOM	627	HG	LEU A	45154.101	10.062	-8.764	1.00	0.00	H
ATOM	628	1HD1	LEU A	45153.622	8.081	-10.710	1.00	0.00	H
ATOM	629	2HD1	LEU A	45153.661	7.900	-8.956	1.00	0.00	H
ATOM	630	3HD1	LEU A	45155.130	7.652	-9.900	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.572	8.983	-9.824	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.312	10.155	-8.530	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.383	10.694	-10.208	1.00	0.00	H
ATOM	634	N	ASN A	46151.656	13.030	-10.149	1.00	0.00	N
ATOM	635	CA	ASN A	46150.449	13.299	-9.377	1.00	0.00	C
ATOM	636	C	ASN A	46149.512	12.098	-9.414	1.00	0.00	C
ATOM	637	O	ASN A	46148.893	11.810	-10.438	1.00	0.00	O
ATOM	638	CB	ASN A	46149.736	14.537	-9.925	1.00	0.00	C
ATOM	639	CG	ASN A	46148.974	15.289	-8.852	1.00	0.00	C
ATOM	640	OD1	ASN A	46147.746	15.375	-8.891	1.00	0.00	O

ATOM	641	ND2	ASN	A	46149.700	15.838	-7.884	1.00	0.00	N
ATOM	642	H	ASN	A	46151.778	13.465	-11.018	1.00	0.00	H
ATOM	643	HA	ASN	A	46150.742	13.484	-8.355	1.00	0.00	H
ATOM	644	1HB	ASN	A	46150.466	15.205	-10.356	1.00	0.00	H
ATOM	645	2HB	ASN	A	46149.038	14.232	-10.691	1.00	0.00	H
ATOM	646	1HD2	ASN	A	46150.673	15.727	-7.917	1.00	0.00	H
ATOM	647	2HD2	ASN	A	46149.233	16.329	-7.178	1.00	0.00	H
ATOM	648	N	GLU	A	47149.415	11.401	-8.288	1.00	0.00	N
ATOM	649	CA	GLU	A	47148.555	10.230	-8.183	1.00	0.00	C
ATOM	650	C	GLU	A	47148.375	9.820	-6.726	1.00	0.00	C
ATOM	651	O	GLU	A	47149.348	9.519	-6.034	1.00	0.00	O
ATOM	652	CB	GLU	A	47149.138	9.063	-8.985	1.00	0.00	C
ATOM	653	CG	GLU	A	47150.653	8.959	-8.902	1.00	0.00	C
ATOM	654	CD	GLU	A	47151.235	8.068	-9.981	1.00	0.00	C
ATOM	655	OE1	GLU	A	47151.350	8.531	-11.134	1.00	0.00	O
ATOM	656	OE2	GLU	A	47151.575	6.905	-9.672	1.00	0.00	O
ATOM	657	H	GLU	A	47149.935	11.682	-7.507	1.00	0.00	H
ATOM	658	HA	GLU	A	47147.590	10.490	-8.592	1.00	0.00	H
ATOM	659	1HB	GLU	A	47148.715	8.141	-8.616	1.00	0.00	H
ATOM	660	2HB	GLU	A	47148.864	9.183	-10.022	1.00	0.00	H
ATOM	661	1HG	GLU	A	47151.075	9.946	-9.006	1.00	0.00	H
ATOM	662	2HG	GLU	A	47150.922	8.554	-7.937	1.00	0.00	H
ATOM	663	N	VAL	A	48147.130	9.802	-6.264	1.00	0.00	N
ATOM	664	CA	VAL	A	48146.839	9.420	-4.889	1.00	0.00	C
ATOM	665	C	VAL	A	48147.232	7.969	-4.639	1.00	0.00	C
ATOM	666	O	VAL	A	48146.502	7.047	-5.001	1.00	0.00	O
ATOM	667	CB	VAL	A	48145.346	9.605	-4.557	1.00	0.00	C
ATOM	668	CG1	VAL	A	48145.100	9.395	-3.071	1.00	0.00	C
ATOM	669	CG2	VAL	A	48144.867	10.980	-4.996	1.00	0.00	C
ATOM	670	H	VAL	A	48146.393	10.047	-6.862	1.00	0.00	H
ATOM	671	HA	VAL	A	48147.417	10.058	-4.236	1.00	0.00	H

ATOM	672	HB	VAL A	48144.783	8.860	-5.100	1.00	0.00	H
ATOM	673	1HG1	VAL A	48144.082	9.666	-2.834	1.00	0.00	H
ATOM	674	2HG1	VAL A	48145.780	10.014	-2.503	1.00	0.00	H
ATOM	675	3HG1	VAL A	48145.265	8.358	-2.821	1.00	0.00	H
ATOM	676	1HG2	VAL A	48145.704	11.662	-5.017	1.00	0.00	H
ATOM	677	2HG2	VAL A	48144.125	11.342	-4.301	1.00	0.00	H
ATOM	678	3HG2	VAL A	48144.433	10.912	-5.983	1.00	0.00	H
ATOM	679	N	LEU A	49148.392	7.774	-4.021	1.00	0.00	N
ATOM	680	CA	LEU A	49148.884	6.434	-3.727	1.00	0.00	C
ATOM	681	C	LEU A	49148.782	6.135	-2.237	1.00	0.00	C
ATOM	682	O	LEU A	49149.437	6.780	-1.418	1.00	0.00	O
ATOM	683	CB	LEU A	49150.333	6.286	-4.190	1.00	0.00	C
ATOM	684	CG	LEU A	49150.544	6.396	-5.702	1.00	0.00	C
ATOM	685	CD1	LEU A	49151.921	6.965	-6.009	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.367	5.038	-6.363	1.00	0.00	C
ATOM	687	H	LEU A	49148.932	8.549	-3.758	1.00	0.00	H
ATOM	688	HA	LEU A	49148.269	5.729	-4.266	1.00	0.00	H
ATOM	689	1HB	LEU A	49150.924	7.053	-3.709	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.696	5.322	-3.869	1.00	0.00	H
ATOM	691	HG	LEU A	49149.806	7.068	-6.114	1.00	0.00	H
ATOM	692	1HD1	LEU A	49151.845	8.033	-6.150	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.306	6.509	-6.908	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.588	6.757	-5.186	1.00	0.00	H
ATOM	695	1HD2	LEU A	49151.056	4.331	-5.924	1.00	0.00	H
ATOM	696	2HD2	LEU A	49150.566	5.123	-7.421	1.00	0.00	H
ATOM	697	3HD2	LEU A	49149.354	4.694	-6.214	1.00	0.00	H
ATOM	698	N	ALAA	50147.954	5.157	-1.890	1.00	0.00	N
ATOM	699	CA	ALAA	50147.767	4.778	-0.498	1.00	0.00	C
ATOM	700	C	ALAA	50148.728	3.663	-0.099	1.00	0.00	C
ATOM	701	O	ALAA	50148.645	2.546	-0.611	1.00	0.00	O
ATOM	702	CB	ALAA	50146.329	4.352	-0.254	1.00	0.00	C

ATOM	703	H	ALAA	50147.457	4.680	-2.588	1.00	0.00	H
ATOM	704	HA	ALAA	50147.968	5.649	0.110	1.00	0.00	H
ATOM	705	1HB	ALAA	50146.304	3.578	0.500	1.00	0.00	H
ATOM	706	2HB	ALAA	50145.905	3.973	-1.172	1.00	0.00	H
ATOM	707	3HB	ALAA	50145.753	5.201	0.084	1.00	0.00	H
ATOM	708	N	GLYA	51149.639	3.971	0.818	1.00	0.00	N
ATOM	709	CA	GLYA	51150.601	2.984	1.269	1.00	0.00	C
ATOM	710	C	GLYA	51149.968	1.910	2.133	1.00	0.00	C
ATOM	711	O	GLYA	51149.673	2.142	3.305	1.00	0.00	O
ATOM	712	H	GLYA	51149.657	4.877	1.191	1.00	0.00	H
ATOM	713	1HA	GLYA	51151.053	2.516	0.406	1.00	0.00	H
ATOM	714	2HA	GLYA	51151.371	3.482	1.839	1.00	0.00	H
ATOM	715	N	LEUA	52149.760	0.733	1.554	1.00	0.00	N
ATOM	716	CA	LEUA	52149.158	-0.379	2.279	1.00	0.00	C
ATOM	717	C	LEUA	52150.226	-1.227	2.962	1.00	0.00	C
ATOM	718	O	LEUA	52151.311	-1.435	2.418	1.00	0.00	O
ATOM	719	CB	LEUA	52148.331	-1.247	1.329	1.00	0.00	C
ATOM	720	CG	LEUA	52147.092	-0.567	0.742	1.00	0.00	C
ATOM	721	CD1	LEUA	52146.492	-1.417	-0.367	1.00	0.00	C
ATOM	722	CD2	LEUA	52146.064	-0.305	1.832	1.00	0.00	C
ATOM	723	H	LEUA	52150.018	0.609	0.617	1.00	0.00	H
ATOM	724	HA	LEUA	52148.505	0.033	3.035	1.00	0.00	H
ATOM	725	1HB	LEUA	52148.968	-1.558	0.513	1.00	0.00	H
ATOM	726	2HB	LEUA	52148.010	-2.127	1.866	1.00	0.00	H
ATOM	727	HG	LEUA	52147.380	0.383	0.317	1.00	0.00	H
ATOM	728	1HD1	LEUA	52146.896	-1.104	-1.319	1.00	0.00	H
ATOM	729	2HD1	LEUA	52145.420	-1.294	-0.374	1.00	0.00	H
ATOM	730	3HD1	LEUA	52146.736	-2.456	-0.197	1.00	0.00	H
ATOM	731	1HD2	LEUA	52146.171	-1.044	2.613	1.00	0.00	H
ATOM	732	2HD2	LEUA	52145.071	-0.367	1.412	1.00	0.00	H
ATOM	733	3HD2	LEUA	52146.220	0.680	2.245	1.00	0.00	H

ATOM	734	N	GLU A	53149.911	-1.716	4.157	1.00	0.00	N
ATOM	735	CA	GLU A	53150.842	-2.542	4.916	1.00	0.00	C
ATOM	736	C	GLU A	53150.337	-3.977	5.018	1.00	0.00	C
ATOM	737	O	GLU A	53149.366	-4.256	5.720	1.00	0.00	O
ATOM	738	CB	GLU A	53151.049	-1.961	6.316	1.00	0.00	C
ATOM	739	CG	GLU A	53152.034	-2.750	7.163	1.00	0.00	C
ATOM	740	CD	GLU A	53151.587	-2.881	8.606	1.00	0.00	C
ATOM	741	OE1	GLU A	53152.298	-2.368	9.497	1.00	0.00	O
ATOM	742	OE2	GLU A	53150.528	-3.497	8.845	1.00	0.00	O
ATOM	743	H	GLU A	53149.031	-1.515	4.539	1.00	0.00	H
ATOM	744	HA	GLU A	53151.787	-2.541	4.393	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.416	-0.950	6.224	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.099	-1.944	6.830	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.138	-3.739	6.743	1.00	0.00	H
ATOM	748	2HG	GLU A	53152.990	-2.248	7.141	1.00	0.00	H
ATOM	749	N	LEU A	54151.003	-4.885	4.310	1.00	0.00	N
ATOM	750	CA	LEU A	54150.620	-6.292	4.319	1.00	0.00	C
ATOM	751	C	LEU A	54150.836	-6.904	5.700	1.00	0.00	C
ATOM	752	O	LEU A	54151.871	-6.692	6.329	1.00	0.00	O
ATOM	753	CB	LEU A	54151.423	-7.067	3.273	1.00	0.00	C
ATOM	754	CG	LEU A	54151.413	-6.460	1.869	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.554	-7.023	1.036	1.00	0.00	C
ATOM	756	CD2	LEU A	54150.076	-6.717	1.189	1.00	0.00	C
ATOM	757	H	LEU A	54151.769	-4.601	3.768	1.00	0.00	H
ATOM	758	HA	LEU A	54149.571	-6.352	4.072	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.448	-7.128	3.610	1.00	0.00	H
ATOM	760	2HB	LEU A	54151.022	-8.068	3.211	1.00	0.00	H
ATOM	761	HG	LEU A	54151.551	-5.392	1.944	1.00	0.00	H
ATOM	762	1HD1	LEU A	54152.684	-8.071	1.266	1.00	0.00	H
ATOM	763	2HD1	LEU A	54153.463	-6.489	1.263	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.323	-6.911	-0.013	1.00	0.00	H

ATOM	765	1HD2	LEU A	54149.629	-7.612	1.599	1.00	0.00	H
ATOM	766	2HD2	LEU A	54150.230	-6.846	0.128	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.419	-5.877	1.357	1.00	0.00	H
ATOM	768	N	GLU A	55149.850	-7.665	6.164	1.00	0.00	N
ATOM	769	CA	GLU A	55149.930	-8.310	7.469	1.00	0.00	C
ATOM	770	C	GLU A	55151.044	-9.351	7.494	1.00	0.00	C
ATOM	771	O	GLU A	55151.685	-9.565	8.524	1.00	0.00	O
ATOM	772	CB	GLU A	55148.594	-8.967	7.822	1.00	0.00	C
ATOM	773	CG	GLU A	55147.552	-7.987	8.337	1.00	0.00	C
ATOM	774	CD	GLU A	55146.137	-8.398	7.975	1.00	0.00	C
ATOM	775	OE1	GLU A	55145.968	-9.127	6.975	1.00	0.00	O
ATOM	776	OE2	GLU A	55145.200	-7.990	8.692	1.00	0.00	O
ATOM	777	H	GLU A	55149.048	-7.797	5.615	1.00	0.00	H
ATOM	778	HA	GLU A	55150.150	-7.547	8.202	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.199	-9.448	6.939	1.00	0.00	H
ATOM	780	2HB	GLU A	55148.763	-9.712	8.584	1.00	0.00	H
ATOM	781	1HG	GLU A	55147.630	-7.930	9.412	1.00	0.00	H
ATOM	782	2HG	GLU A	55147.749	-7.015	7.910	1.00	0.00	H
ATOM	783	N	ASP A	56151.269	-9.997	6.356	1.00	0.00	N
ATOM	784	CA	ASP A	56152.306	-11.017	6.248	1.00	0.00	C
ATOM	785	C	ASP A	56153.580	-10.435	5.642	1.00	0.00	C
ATOM	786	O	ASP A	56153.529	-9.483	4.864	1.00	0.00	O
ATOM	787	CB	ASP A	56151.812	-12.189	5.397	1.00	0.00	C
ATOM	788	CG	ASP A	56150.930	-13.140	6.180	1.00	0.00	C
ATOM	789	OD1	ASP A	56149.691	-13.034	6.064	1.00	0.00	O
ATOM	790	OD2	ASP A	56151.478	-13.993	6.910	1.00	0.00	O
ATOM	791	H	ASP A	56150.725	-9.784	5.569	1.00	0.00	H
ATOM	792	HA	ASP A	56152.526	-11.374	7.243	1.00	0.00	H
ATOM	793	1HB	ASP A	56151.244	-11.805	4.563	1.00	0.00	H
ATOM	794	2HB	ASP A	56152.664	-12.739	5.024	1.00	0.00	H
ATOM	795	N	GLU A	57154.719	-11.014	6.006	1.00	0.00	N

ATOM	796	CA	GLU A	57156.006	-10.552	5.498	1.00	0.00	C
ATOM	797	C	GLU A	57156.353	-11.245	4.184	1.00	0.00	C
ATOM	798	O	GLU A	57156.738	-12.414	4.170	1.00	0.00	O
ATOM	799	CB	GLU A	57157.107	-10.810	6.529	1.00	0.00	C
ATOM	800	CG	GLU A	57157.130	-9.795	7.660	1.00	0.00	C
ATOM	801	CD	GLU A	57158.393	-9.882	8.496	1.00	0.00	C
ATOM	802	OE1	GLU A	57158.992	-10.976	8.553	1.00	0.00	O
ATOM	803	OE2	GLU A	57158.782	-8.856	9.092	1.00	0.00	O
ATOM	804	H	GLU A	57154.694	-11.769	6.630	1.00	0.00	H
ATOM	805	HA	GLU A	57155.932	-9.490	5.323	1.00	0.00	H
ATOM	806	1HB	GLU A	57156.960	-11.791	6.958	1.00	0.00	H
ATOM	807	2HB	GLU A	57158.064	-10.784	6.031	1.00	0.00	H
ATOM	808	1HG	GLU A	57157.065	-8.803	7.238	1.00	0.00	H
ATOM	809	2HG	GLU A	57156.278	-9.969	8.301	1.00	0.00	H
ATOM	810	N	CYS A	58156.214	-10.515	3.082	1.00	0.00	N
ATOM	811	CA	CYS A	58156.513	-11.058	1.762	1.00	0.00	C
ATOM	812	C	CYS A	58157.824	-10.492	1.225	1.00	0.00	C
ATOM	813	O	CYS A	58157.973	-9.279	1.077	1.00	0.00	O
ATOM	814	CB	CYS A	58155.374	-10.750	0.790	1.00	0.00	C
ATOM	815	SG	CYS A	58155.604	-11.445	-0.862	1.00	0.00	S
ATOM	816	H	CYS A	58155.904	-9.589	3.158	1.00	0.00	H
ATOM	817	HA	CYS A	58156.612	-12.129	1.860	1.00	0.00	H
ATOM	818	1HB	CYS A	58154.453	-11.150	1.188	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.279	-9.678	0.687	1.00	0.00	H
ATOM	820	HG	CYS A	58156.540	-11.627	-0.979	1.00	0.00	H
ATOM	821	N	ALAA	59158.770	-11.378	0.933	1.00	0.00	N
ATOM	822	CA	ALAA	59160.067	-10.966	0.411	1.00	0.00	C
ATOM	823	C	ALAA	59159.915	-10.208	-0.903	1.00	0.00	C
ATOM	824	O	ALAA	59159.155	-10.615	-1.782	1.00	0.00	O
ATOM	825	CB	ALAA	59160.968	-12.177	0.223	1.00	0.00	C
ATOM	826	H	ALAA	59158.592	-12.331	1.071	1.00	0.00	H

ATOM	827	HA	ALAA	59160.528	-10.315	1.140	1.00	0.00	H
ATOM	828	1HB	ALAA	59160.734	-12.921	0.969	1.00	0.00	H
ATOM	829	2HB	ALAA	59162.001	-11.877	0.326	1.00	0.00	H
ATOM	830	3HB	ALAA	59160.811	-12.593	-0.762	1.00	0.00	H
ATOM	831	N	GLYA	60160.643	-9.103	-1.031	1.00	0.00	N
ATOM	832	CA	GLYA	60160.574	-8.305	-2.241	1.00	0.00	C
ATOM	833	C	GLYA	60160.044	-6.908	-1.985	1.00	0.00	C
ATOM	834	O	GLYA	60160.381	-5.967	-2.703	1.00	0.00	O
ATOM	835	H	GLYA	60161.231	-8.827	-0.298	1.00	0.00	H
ATOM	836	1HA	GLYA	60161.564	-8.229	-2.666	1.00	0.00	H
ATOM	837	2HA	GLYA	60159.927	-8.799	-2.951	1.00	0.00	H
ATOM	838	N	CYSA	61159.210	-6.773	-0.959	1.00	0.00	N
ATOM	839	CA	CYSA	61158.631	-5.480	-0.610	1.00	0.00	C
ATOM	840	C	CYSA	61159.598	-4.662	0.240	1.00	0.00	C
ATOM	841	O	CYSA	61160.705	-5.109	0.542	1.00	0.00	O
ATOM	842	CB	CYSA	61157.314	-5.675	0.143	1.00	0.00	C
ATOM	843	SG	CYSA	61156.183	-6.848	-0.641	1.00	0.00	S
ATOM	844	H	CYSA	61158.978	-7.560	-0.424	1.00	0.00	H
ATOM	845	HA	CYSA	61158.435	-4.946	-1.527	1.00	0.00	H
ATOM	846	1HB	CYSA	61157.525	-6.040	1.137	1.00	0.00	H
ATOM	847	2HB	CYSA	61156.804	-4.725	0.215	1.00	0.00	H
ATOM	848	HG	CYSA	61156.528	-7.057	-1.512	1.00	0.00	H
ATOM	849	N	THRA	62159.174	-3.462	0.620	1.00	0.00	N
ATOM	850	CA	THRA	62160.003	-2.581	1.435	1.00	0.00	C
ATOM	851	C	THRA	62159.434	-2.448	2.844	1.00	0.00	C
ATOM	852	O	THRA	62158.454	-3.106	3.192	1.00	0.00	O
ATOM	853	CB	THRA	62160.110	-1.201	0.784	1.00	0.00	C
ATOM	854	OG1	THRA	62158.839	-0.580	0.714	1.00	0.00	O
ATOM	855	CG2	THRA	62160.677	-1.243	-0.618	1.00	0.00	C
ATOM	856	H	THRA	62158.283	-3.161	0.347	1.00	0.00	H
ATOM	857	HA	THRA	62160.989	-3.017	1.497	1.00	0.00	H

ATOM	858	HB	THR A	62160.758	-0.580	1.385	1.00	0.00	H
ATOM	859	HG1	THR A	62158.243	-1.125	0.195	1.00	0.00	H
ATOM	860	1HG2	THR A	62160.591	-2.245	-1.011	1.00	0.00	H
ATOM	861	2HG2	THR A	62161.718	-0.954	-0.595	1.00	0.00	H
ATOM	862	3HG2	THR A	62160.128	-0.561	-1.250	1.00	0.00	H
ATOM	863	N	ASP A	63160.056	-1.594	3.649	1.00	0.00	N
ATOM	864	CA	ASP A	63159.612	-1.375	5.021	1.00	0.00	C
ATOM	865	C	ASP A	63158.866	-0.050	5.147	1.00	0.00	C
ATOM	866	O	ASP A	63158.935	0.616	6.180	1.00	0.00	O
ATOM	867	CB	ASP A	63160.806	-1.393	5.976	1.00	0.00	C
ATOM	868	CG	ASP A	63161.904	-0.439	5.547	1.00	0.00	C
ATOM	869	OD1	ASP A	63162.936	-0.917	5.028	1.00	0.00	O
ATOM	870	OD2	ASP A	63161.732	0.784	5.729	1.00	0.00	O
ATOM	871	H	ASP A	63160.832	-1.098	3.314	1.00	0.00	H
ATOM	872	HA	ASP A	63158.940	-2.178	5.284	1.00	0.00	H
ATOM	873	1HB	ASP A	63160.475	-1.110	6.963	1.00	0.00	H
ATOM	874	2HB	ASP A	63161.216	-2.393	6.011	1.00	0.00	H
ATOM	875	N	GLY A	64158.156	0.325	4.089	1.00	0.00	N
ATOM	876	CA	GLY A	64157.408	1.569	4.101	1.00	0.00	C
ATOM	877	C	GLY A	64158.144	2.695	3.402	1.00	0.00	C
ATOM	878	O	GLY A	64158.130	3.836	3.864	1.00	0.00	O
ATOM	879	H	GLY A	64158.138	-0.246	3.293	1.00	0.00	H
ATOM	880	1HA	GLY A	64156.460	1.412	3.608	1.00	0.00	H
ATOM	881	2HA	GLY A	64157.225	1.856	5.126	1.00	0.00	H
ATOM	882	N	THR A	65158.787	2.375	2.284	1.00	0.00	N
ATOM	883	CA	THR A	65159.532	3.367	1.519	1.00	0.00	C
ATOM	884	C	THR A	65159.121	3.343	0.051	1.00	0.00	C
ATOM	885	O	THR A	65159.276	2.330	-0.631	1.00	0.00	O
ATOM	886	CB	THR A	65161.036	3.116	1.644	1.00	0.00	C
ATOM	887	OG1	THR A	65161.300	1.733	1.811	1.00	0.00	O
ATOM	888	CG2	THR A	65161.670	3.849	2.806	1.00	0.00	C

ATOM	889	H	THR A	65158.760	1.448	1.967	1.00	0.00	H
ATOM	890	HA	THR A	65159.304	4.341	1.929	1.00	0.00	H
ATOM	891	HB	THR A	65161.522	3.447	0.738	1.00	0.00	H
ATOM	892	HG1	THR A	65161.736	1.394	1.027	1.00	0.00	H
ATOM	893	1HG2	THR A	65161.388	3.369	3.731	1.00	0.00	H
ATOM	894	2HG2	THR A	65161.331	4.874	2.813	1.00	0.00	H
ATOM	895	3HG2	THR A	65162.745	3.826	2.702	1.00	0.00	H
ATOM	896	N	PHE A	66158.597	4.466	-0.431	1.00	0.00	N
ATOM	897	CA	PHE A	66158.164	4.572	-1.819	1.00	0.00	C
ATOM	898	C	PHE A	66159.235	5.243	-2.672	1.00	0.00	C
ATOM	899	O	PHE A	66159.380	6.465	-2.657	1.00	0.00	O
ATOM	900	CB	PHE A	66156.857	5.362	-1.909	1.00	0.00	C
ATOM	901	CG	PHE A	66156.098	5.124	-3.184	1.00	0.00	C
ATOM	902	CD1	PHE A	66155.827	3.835	-3.613	1.00	0.00	C
ATOM	903	CD2	PHE A	66155.657	6.190	-3.951	1.00	0.00	C
ATOM	904	CE1	PHE A	66155.130	3.613	-4.786	1.00	0.00	C
ATOM	905	CE2	PHE A	66154.959	5.974	-5.125	1.00	0.00	C
ATOM	906	CZ	PHE A	66154.695	4.684	-5.542	1.00	0.00	C
ATOM	907	H	PHE A	66158.499	5.240	0.162	1.00	0.00	H
ATOM	908	HA	PHE A	66157.997	3.574	-2.192	1.00	0.00	H
ATOM	909	1HB	PHE A	66156.218	5.082	-1.085	1.00	0.00	H
ATOM	910	2HB	PHE A	66157.078	6.417	-1.844	1.00	0.00	H
ATOM	911	HD1	PHE A	66156.166	2.997	-3.022	1.00	0.00	H
ATOM	912	HD2	PHE A	66155.863	7.198	-3.626	1.00	0.00	H
ATOM	913	HE1	PHE A	66154.926	2.603	-5.111	1.00	0.00	H
ATOM	914	HE2	PHE A	66154.621	6.812	-5.715	1.00	0.00	H
ATOM	915	HZ	PHE A	66154.150	4.514	-6.459	1.00	0.00	H
ATOM	916	N	ARG A	67159.983	4.435	-3.417	1.00	0.00	N
ATOM	917	CA	ARG A	67161.042	4.949	-4.278	1.00	0.00	C
ATOM	918	C	ARG A	67162.083	5.713	-3.465	1.00	0.00	C
ATOM	919	O	ARG A	67162.723	6.636	-3.969	1.00	0.00	O

ATOM	920	CB	ARG A	67160.453	5.860	-5.357	1.00	0.00	C
ATOM	921	CG	ARG A	67159.223	5.281	-6.038	1.00	0.00	C
ATOM	922	CD	ARG A	67158.382	6.368	-6.687	1.00	0.00	C
ATOM	923	NE	ARG A	67157.338	5.813	-7.546	1.00	0.00	N
ATOM	924	CZ	ARG A	67157.567	5.297	-8.752	1.00	0.00	C
ATOM	925	NH1	ARG A	67158.799	5.263	-9.244	1.00	0.00	N
ATOM	926	NH2	ARG A	67156.561	4.814	-9.466	1.00	0.00	N
ATOM	927	H	ARG A	67159.819	3.469	-3.387	1.00	0.00	H
ATOM	928	HA	ARG A	67161.521	4.107	-4.753	1.00	0.00	H
ATOM	929	1HB	ARG A	67160.177	6.802	-4.906	1.00	0.00	H
ATOM	930	2HB	ARG A	67161.205	6.037	-6.112	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.539	4.582	-6.797	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.623	4.768	-5.300	1.00	0.00	H
ATOM	933	1HD	ARG A	67157.919	6.959	-5.910	1.00	0.00	H
ATOM	934	2HD	ARG A	67159.027	6.998	-7.281	1.00	0.00	H
ATOM	935	HE	ARG A	67156.419	5.826	-7.206	1.00	0.00	H
ATOM	936	1HH1	ARG A	67159.562	5.625	-8.709	1.00	0.00	H
ATOM	937	2HH1	ARG A	67158.964	4.873	-10.149	1.00	0.00	H
ATOM	938	1HH2	ARG A	67155.630	4.837	-9.101	1.00	0.00	H
ATOM	939	2HH2	ARG A	67156.731	4.426	-10.372	1.00	0.00	H
ATOM	940	N	GLY A	68162.246	5.323	-2.205	1.00	0.00	N
ATOM	941	CA	GLY A	68163.211	5.983	-1.344	1.00	0.00	C
ATOM	942	C	GLY A	68162.572	7.006	-0.425	1.00	0.00	C
ATOM	943	O	GLY A	68163.149	7.375	0.598	1.00	0.00	O
ATOM	944	H	GLY A	68161.708	4.581	-1.856	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.709	5.237	-0.743	1.00	0.00	H
ATOM	946	2HA	GLY A	68163.946	6.480	-1.961	1.00	0.00	H
ATOM	947	N	THR A	69161.378	7.467	-0.787	1.00	0.00	N
ATOM	948	CA	THR A	69160.666	8.455	0.015	1.00	0.00	C
ATOM	949	C	THR A	69159.834	7.778	1.100	1.00	0.00	C
ATOM	950	O	THR A	69158.714	7.331	0.851	1.00	0.00	O

ATOM	951	CB	THR	A	69159.763	9.310	-0.875	1.00	0.00	C
ATOM	952	OG1	THR	A	69160.491	9.830	-1.974	1.00	0.00	O
ATOM	953	CG2	THR	A	69159.137	10.479	-0.146	1.00	0.00	C
ATOM	954	H	THR	A	69160.967	7.138	-1.614	1.00	0.00	H
ATOM	955	HA	THR	A	69161.399	9.091	0.486	1.00	0.00	H
ATOM	956	HB	THR	A	69158.964	8.693	-1.259	1.00	0.00	H
ATOM	957	HG1	THR	A	69161.267	10.293	-1.655	1.00	0.00	H
ATOM	958	1HG2	THR	A	69158.646	11.126	-0.857	1.00	0.00	H
ATOM	959	2HG2	THR	A	69159.906	11.033	0.374	1.00	0.00	H
ATOM	960	3HG2	THR	A	69158.413	10.113	0.567	1.00	0.00	H
ATOM	961	N	ARG	A	70160.389	7.706	2.306	1.00	0.00	N
ATOM	962	CA	ARG	A	70159.699	7.084	3.429	1.00	0.00	C
ATOM	963	C	ARG	A	70158.562	7.971	3.925	1.00	0.00	C
ATOM	964	O	ARG	A	70158.773	9.132	4.275	1.00	0.00	O
ATOM	965	CB	ARG	A	70160.680	6.807	4.569	1.00	0.00	C
ATOM	966	CG	ARG	A	70160.151	5.828	5.603	1.00	0.00	C
ATOM	967	CD	ARG	A	70160.885	5.964	6.927	1.00	0.00	C
ATOM	968	NE	ARG	A	70162.332	5.847	6.766	1.00	0.00	N
ATOM	969	CZ	ARG	A	70163.172	5.583	7.765	1.00	0.00	C
ATOM	970	NH1	ARG	A	70162.711	5.408	8.998	1.00	0.00	N
ATOM	971	NH2	ARG	A	70164.473	5.494	7.532	1.00	0.00	N
ATOM	972	H	ARG	A	70161.285	8.080	2.443	1.00	0.00	H
ATOM	973	HA	ARG	A	70159.286	6.147	3.086	1.00	0.00	H
ATOM	974	1HB	ARG	A	70161.592	6.402	4.154	1.00	0.00	H
ATOM	975	2HB	ARG	A	70160.906	7.738	5.069	1.00	0.00	H
ATOM	976	1HG	ARG	A	70159.102	6.021	5.764	1.00	0.00	H
ATOM	977	2HG	ARG	A	70160.282	4.821	5.232	1.00	0.00	H
ATOM	978	1HD	ARG	A	70160.658	6.931	7.352	1.00	0.00	H
ATOM	979	2HD	ARG	A	70160.543	5.189	7.596	1.00	0.00	H
ATOM	980	HE	ARG	A	70162.699	5.971	5.866	1.00	0.00	H
ATOM	981	1HH1	ARG	A	70161.731	5.474	9.181	1.00	0.00	H

ATOM	982	2HH1	ARG A	70163.347	5.210	9.744	1.00	0.00	H
ATOM	983	1HH2	ARG A	70164.825	5.624	6.604	1.00	0.00	H
ATOM	984	2HH2	ARG A	70165.104	5.296	8.282	1.00	0.00	H
ATOM	985	N	TYR A	71157.354	7.415	3.953	1.00	0.00	N
ATOM	986	CA	TYR A	71156.182	8.156	4.406	1.00	0.00	C
ATOM	987	C	TYR A	71155.796	7.749	5.824	1.00	0.00	C
ATOM	988	O	TYR A	71155.470	8.595	6.657	1.00	0.00	O
ATOM	989	CB	TYR A	71155.007	7.920	3.457	1.00	0.00	C
ATOM	990	CG	TYR A	71155.195	8.551	2.094	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.167	9.930	1.937	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.397	7.766	0.966	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.337	10.510	0.693	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.568	8.337	-0.280	1.00	0.00	C
ATOM	995	CZ	TYR A	71155.537	9.710	-0.411	1.00	0.00	C
ATOM	996	OH	TYR A	71155.707	10.284	-1.650	1.00	0.00	O
ATOM	997	H	TYR A	71157.249	6.486	3.661	1.00	0.00	H
ATOM	998	HA	TYR A	71156.432	9.207	4.401	1.00	0.00	H
ATOM	999	1HB	TYR A	71154.875	6.859	3.315	1.00	0.00	H
ATOM	1000	2HB	TYR A	71154.111	8.336	3.895	1.00	0.00	H
ATOM	1001	HD1	TYR A	71155.010	10.555	2.804	1.00	0.00	H
ATOM	1002	HD2	TYR A	71155.420	6.691	1.071	1.00	0.00	H
ATOM	1003	HE1	TYR A	71155.313	11.585	0.592	1.00	0.00	H
ATOM	1004	HE2	TYR A	71155.725	7.710	-1.145	1.00	0.00	H
ATOM	1005	HH	TYR A	71156.632	10.235	-1.902	1.00	0.00	H
ATOM	1006	N	PHE A	72155.835	6.447	6.092	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.488	5.928	7.409	1.00	0.00	C
ATOM	1008	C	PHE A	72156.491	4.871	7.858	1.00	0.00	C
ATOM	1009	O	PHE A	72157.311	4.403	7.068	1.00	0.00	O
ATOM	1010	CB	PHE A	72154.079	5.335	7.393	1.00	0.00	C
ATOM	1011	CG	PHE A	72153.863	4.329	6.298	1.00	0.00	C
ATOM	1012	CD1	PHE A	72154.015	2.974	6.546	1.00	0.00	C

ATOM	1013	CD2	PHE A	72153.508	4.738	5.023	1.00	0.00	C
ATOM	1014	CE1	PHE A	72153.817	2.046	5.541	1.00	0.00	C
ATOM	1015	CE2	PHE A	72153.309	3.816	4.015	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.463	2.468	4.274	1.00	0.00	C
ATOM	1017	H	PHE A	72156.102	5.823	5.386	1.00	0.00	H
ATOM	1018	HA	PHE A	72155.514	6.751	8.107	1.00	0.00	H
ATOM	1019	1HB	PHE A	72153.890	4.844	8.336	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.361	6.132	7.260	1.00	0.00	H
ATOM	1021	HD1	PHE A	72154.290	2.644	7.537	1.00	0.00	H
ATOM	1022	HD2	PHE A	72153.387	5.793	4.820	1.00	0.00	H
ATOM	1023	HE1	PHE A	72153.939	0.993	5.746	1.00	0.00	H
ATOM	1024	HE2	PHE A	72153.033	4.148	3.024	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.308	1.744	3.487	1.00	0.00	H
ATOM	1026	N	THR A	73156.422	4.500	9.133	1.00	0.00	N
ATOM	1027	CA	THR A	73157.326	3.498	9.688	1.00	0.00	C
ATOM	1028	C	THR A	73156.594	2.182	9.932	1.00	0.00	C
ATOM	1029	O	THR A	73155.767	2.079	10.838	1.00	0.00	O
ATOM	1030	CB	THR A	73157.941	4.003	10.993	1.00	0.00	C
ATOM	1031	OG1	THR A	73156.941	4.531	11.848	1.00	0.00	O
ATOM	1032	CG2	THR A	73158.983	5.080	10.785	1.00	0.00	C
ATOM	1033	H	THR A	73155.748	4.909	9.714	1.00	0.00	H
ATOM	1034	HA	THR A	73158.114	3.329	8.970	1.00	0.00	H
ATOM	1035	HB	THR A	73158.417	3.176	11.499	1.00	0.00	H
ATOM	1036	HG1	THR A	73156.596	5.344	11.472	1.00	0.00	H
ATOM	1037	1HG2	THR A	73159.375	5.392	11.742	1.00	0.00	H
ATOM	1038	2HG2	THR A	73158.532	5.927	10.289	1.00	0.00	H
ATOM	1039	3HG2	THR A	73159.786	4.692	10.177	1.00	0.00	H
ATOM	1040	N	CYS A	74156.905	1.178	9.118	1.00	0.00	N
ATOM	1041	CA	CYS A	74156.276	-0.132	9.247	1.00	0.00	C
ATOM	1042	C	CYS A	74157.327	-1.238	9.278	1.00	0.00	C
ATOM	1043	O	CYS A	74158.514	-0.986	9.073	1.00	0.00	O

ATOM	1044	CB	CYS A	74155.305	-0.369	8.090	1.00	0.00	C
ATOM	1045	SG	CYS A	74153.619	0.197	8.415	1.00	0.00	S
ATOM	1046	H	CYS A	74157.572	1.322	8.415	1.00	0.00	H
ATOM	1047	HA	CYS A	74155.727	-0.147	10.176	1.00	0.00	H
ATOM	1048	1HB	CYS A	74155.662	0.153	7.215	1.00	0.00	H
ATOM	1049	2HB	CYS A	74155.261	-1.428	7.877	1.00	0.00	H
ATOM	1050	HG	CYS A	74153.098	0.048	7.623	1.00	0.00	H
ATOM	1051	N	ALAA	75156.880	-2.462	9.536	1.00	0.00	N
ATOM	1052	CA	ALAA	75157.781	-3.607	9.595	1.00	0.00	C
ATOM	1053	C	ALAA	75158.466	-3.836	8.251	1.00	0.00	C
ATOM	1054	O	ALAA	75158.120	-3.206	7.251	1.00	0.00	O
ATOM	1055	CB	ALAA	75157.022	-4.854	10.021	1.00	0.00	C
ATOM	1056	H	ALAA	75155.923	-2.600	9.691	1.00	0.00	H
ATOM	1057	HA	ALAA	75158.535	-3.401	10.341	1.00	0.00	H
ATOM	1058	1HB	ALAA	75156.775	-5.441	9.149	1.00	0.00	H
ATOM	1059	2HB	ALAA	75156.113	-4.566	10.529	1.00	0.00	H
ATOM	1060	3HB	ALAA	75157.636	-5.441	10.687	1.00	0.00	H
ATOM	1061	N	LEU A	76159.440	-4.741	8.235	1.00	0.00	N
ATOM	1062	CA	LEU A	76160.174	-5.052	7.014	1.00	0.00	C
ATOM	1063	C	LEU A	76159.372	-5.997	6.124	1.00	0.00	C
ATOM	1064	O	LEU A	76158.793	-6.973	6.600	1.00	0.00	O
ATOM	1065	CB	LEU A	76161.527	-5.679	7.353	1.00	0.00	C
ATOM	1066	CG	LEU A	76162.600	-4.692	7.818	1.00	0.00	C
ATOM	1067	CD1	LEU A	76163.504	-5.337	8.856	1.00	0.00	C
ATOM	1068	CD2	LEU A	76163.415	-4.197	6.633	1.00	0.00	C
ATOM	1069	H	LEU A	76159.671	-5.210	9.064	1.00	0.00	H
ATOM	1070	HA	LEU A	76160.339	-4.129	6.482	1.00	0.00	H
ATOM	1071	1HB	LEU A	76161.376	-6.410	8.135	1.00	0.00	H
ATOM	1072	2HB	LEU A	76161.895	-6.189	6.475	1.00	0.00	H
ATOM	1073	HG	LEU A	76162.121	-3.839	8.276	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76163.112	-5.145	9.844	1.00	0.00	H

ATOM	1075	2HD1	LEU A	76164.497	-4.919	8.777	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76163.547	-6.401	8.686	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76163.394	-4.936	5.846	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76164.436	-4.028	6.943	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76162.993	-3.271	6.267	1.00	0.00	H
ATOM	1080	N	LYS A	77159.343	-5.699	4.829	1.00	0.00	N
ATOM	1081	CA	LYS A	77158.612	-6.522	3.872	1.00	0.00	C
ATOM	1082	C	LYS A	77157.123	-6.548	4.201	1.00	0.00	C
ATOM	1083	O	LYS A	77156.500	-7.610	4.224	1.00	0.00	O
ATOM	1084	CB	LYS A	77159.172	-7.946	3.859	1.00	0.00	C
ATOM	1085	CG	LYS A	77160.683	-8.006	3.706	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.119	-7.581	2.314	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.513	-6.976	2.326	1.00	0.00	C
ATOM	1088	NZ	LYS A	77163.560	-7.995	2.614	1.00	0.00	N
ATOM	1089	H	LYS A	77159.825	-4.908	4.510	1.00	0.00	H
ATOM	1090	HA	LYS A	77158.744	-6.086	2.892	1.00	0.00	H
ATOM	1091	1HB	LYS A	77158.907	-8.433	4.787	1.00	0.00	H
ATOM	1092	2HB	LYS A	77158.728	-8.489	3.038	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.135	-7.344	4.431	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.014	-9.018	3.886	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.120	-8.447	1.668	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.421	-6.849	1.936	1.00	0.00	H
ATOM	1097	1HE	LYS A	77162.708	-6.535	1.361	1.00	0.00	H
ATOM	1098	2HE	LYS A	77162.552	-6.209	3.086	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77163.525	-8.270	3.616	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77164.502	-7.610	2.403	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77163.404	-8.841	2.028	1.00	0.00	H
ATOM	1102	N	LYS A	78156.558	-5.373	4.456	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.142	-5.261	4.785	1.00	0.00	C
ATOM	1104	C	LYS A	78154.602	-3.885	4.407	1.00	0.00	C
ATOM	1105	O	LYS A	78153.781	-3.312	5.123	1.00	0.00	O

ATOM	1106	CB	LYS A	78154.921	-5.517	6.278	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.477	-6.850	6.755	1.00	0.00	C
ATOM	1108	CD	LYS A	78155.149	-7.097	8.218	1.00	0.00	C
ATOM	1109	CE	LYS A	78153.954	-8.023	8.373	1.00	0.00	C
ATOM	1110	NZ	LYS A	78153.139	-7.684	9.573	1.00	0.00	N
ATOM	1111	H	LYS A	78157.106	-4.561	4.423	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.610	-6.012	4.219	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.400	-4.729	6.840	1.00	0.00	H
ATOM	1114	2HB	LYS A	78153.861	-5.500	6.482	1.00	0.00	H
ATOM	1115	1HG	LYS A	78155.046	-7.641	6.161	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.550	-6.845	6.631	1.00	0.00	H
ATOM	1117	1HD	LYS A	78156.005	-7.550	8.697	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.926	-6.152	8.692	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.332	-7.938	7.493	1.00	0.00	H
ATOM	1120	2HE	LYS A	78154.309	-9.038	8.464	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78152.325	-8.326	9.645	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78152.792	-6.707	9.505	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78153.716	-7.775	10.433	1.00	0.00	H
ATOM	1124	N	ALAA	79155.068	-3.363	3.278	1.00	0.00	N
ATOM	1125	CA	ALAA	79154.633	-2.055	2.805	1.00	0.00	C
ATOM	1126	C	ALAA	79154.555	-2.020	1.282	1.00	0.00	C
ATOM	1127	O	ALAA	79155.578	-1.989	0.599	1.00	0.00	O
ATOM	1128	CB	ALAA	79155.571	-0.971	3.312	1.00	0.00	C
ATOM	1129	H	ALAA	79155.721	-3.869	2.751	1.00	0.00	H
ATOM	1130	HA	ALAA	79153.648	-1.864	3.209	1.00	0.00	H
ATOM	1131	1HB	ALAA	79156.010	-1.283	4.248	1.00	0.00	H
ATOM	1132	2HB	ALAA	79155.017	-0.056	3.462	1.00	0.00	H
ATOM	1133	3HB	ALAA	79156.353	-0.802	2.586	1.00	0.00	H
ATOM	1134	N	LEU A	80153.334	-2.025	0.757	1.00	0.00	N
ATOM	1135	CA	LEU A	80153.122	-1.994	-0.685	1.00	0.00	C
ATOM	1136	C	LEU A	80152.248	-0.809	-1.081	1.00	0.00	C

ATOM 1137 O LEU A 80151.047 -0.791 -0.810 1.00 0.00 O
 ATOM 1138 CB LEU A 80152.476 -3.299 -1.154 1.00 0.00 C
 ATOM 1139 CG LEU A 80152.145 -3.358 -2.647 1.00 0.00 C
 ATOM 1140 CD1 LEU A 80153.393 -3.669 -3.458 1.00 0.00 C
 ATOM 1141 CD2 LEU A 80151.062 -4.394 -2.911 1.00 0.00 C
 ATOM 1142 H LEU A 80152.557 -2.050 1.353 1.00 0.00 H
 ATOM 1143 HA LEU A 80154.086 -1.889 -1.160 1.00 0.00 H
 ATOM 1144 1HB LEU A 80153.147 -4.113 -0.923 1.00 0.00 H
 ATOM 1145 2HB LEU A 80151.559 -3.442 -0.600 1.00 0.00 H
 ATOM 1146 HG LEU A 80151.772 -2.395 -2.964 1.00 0.00 H
 ATOM 1147 1HD1 LEU A 80153.335 -3.169 -4.413 1.00 0.00 H
 ATOM 1148 2HD1 LEU A 80153.464 -4.735 -3.614 1.00 0.00 H
 ATOM 1149 3HD1 LEU A 80154.265 -3.325 -2.923 1.00 0.00 H
 ATOM 1150 1HD2 LEU A 80150.263 -4.270 -2.196 1.00 0.00 H
 ATOM 1151 2HD2 LEU A 80151.481 -5.385 -2.814 1.00 0.00 H
 ATOM 1152 3HD2 LEU A 80150.675 -4.263 -3.911 1.00 0.00 H
 ATOM 1153 N PHE A 81152.858 0.182 -1.724 1.00 0.00 N
 ATOM 1154 CA PHE A 81152.135 1.371 -2.158 1.00 0.00 C
 ATOM 1155 C PHE A 81151.374 1.103 -3.452 1.00 0.00 C
 ATOM 1156 O PHE A 81151.879 0.436 -4.355 1.00 0.00 O
 ATOM 1157 CB PHE A 81153.104 2.538 -2.355 1.00 0.00 C
 ATOM 1158 CG PHE A 81153.883 2.888 -1.119 1.00 0.00 C
 ATOM 1159 CD1 PHE A 81153.494 3.947 -0.316 1.00 0.00 C
 ATOM 1160 CD2 PHE A 81155.005 2.157 -0.761 1.00 0.00 C
 ATOM 1161 CE1 PHE A 81154.209 4.271 0.822 1.00 0.00 C
 ATOM 1162 CE2 PHE A 81155.724 2.476 0.375 1.00 0.00 C
 ATOM 1163 CZ PHE A 81155.325 3.534 1.167 1.00 0.00 C
 ATOM 1164 H PHE A 81153.817 0.110 -1.911 1.00 0.00 H
 ATOM 1165 HA PHE A 81151.428 1.630 -1.385 1.00 0.00 H
 ATOM 1166 1HB PHE A 81153.810 2.283 -3.131 1.00 0.00 H
 ATOM 1167 2HB PHE A 81152.546 3.414 -2.656 1.00 0.00 H

ATOM	1168	HD1	PHE A	81152.621	4.524	-0.585	1.00	0.00	H
ATOM	1169	HD2	PHE A	81155.317	1.329	-1.381	1.00	0.00	H
ATOM	1170	HE1	PHE A	81153.895	5.100	1.440	1.00	0.00	H
ATOM	1171	HE2	PHE A	81156.596	1.898	0.643	1.00	0.00	H
ATOM	1172	HZ	PHE A	81155.884	3.785	2.056	1.00	0.00	H
ATOM	1173	N	VAL A	82150.155	1.628	-3.535	1.00	0.00	N
ATOM	1174	CA	VAL A	82149.324	1.445	-4.718	1.00	0.00	C
ATOM	1175	C	VAL A	82148.369	2.618	-4.907	1.00	0.00	C
ATOM	1176	O	VAL A	82148.190	3.437	-4.005	1.00	0.00	O
ATOM	1177	CB	VAL A	82148.507	0.142	-4.635	1.00	0.00	C
ATOM	1178	CG1	VAL A	82149.423	-1.069	-4.717	1.00	0.00	C
ATOM	1179	CG2	VAL A	82147.682	0.111	-3.358	1.00	0.00	C
ATOM	1180	H	VAL A	82149.807	2.151	-2.782	1.00	0.00	H
ATOM	1181	HA	VAL A	82149.976	1.382	-5.577	1.00	0.00	H
ATOM	1182	HB	VAL A	82147.830	0.111	-5.477	1.00	0.00	H
ATOM	1183	1HG1	VAL A	82150.197	-0.886	-5.447	1.00	0.00	H
ATOM	1184	2HG1	VAL A	82148.848	-1.936	-5.010	1.00	0.00	H
ATOM	1185	3HG1	VAL A	82149.873	-1.247	-3.751	1.00	0.00	H
ATOM	1186	1HG2	VAL A	82147.413	1.118	-3.078	1.00	0.00	H
ATOM	1187	2HG2	VAL A	82148.261	-0.341	-2.566	1.00	0.00	H
ATOM	1188	3HG2	VAL A	82146.784	-0.468	-3.523	1.00	0.00	H
ATOM	1189	N	LYS A	83147.757	2.694	-6.084	1.00	0.00	N
ATOM	1190	CA	LYS A	83146.820	3.768	-6.391	1.00	0.00	C
ATOM	1191	C	LYS A	83145.576	3.672	-5.515	1.00	0.00	C
ATOM	1192	O	LYS A	83144.875	2.659	-5.521	1.00	0.00	O
ATOM	1193	CB	LYS A	83146.424	3.721	-7.868	1.00	0.00	C
ATOM	1194	CG	LYS A	83147.590	3.945	-8.818	1.00	0.00	C
ATOM	1195	CD	LYS A	83147.222	3.577	-10.246	1.00	0.00	C
ATOM	1196	CE	LYS A	83147.832	4.546	-11.246	1.00	0.00	C
ATOM	1197	NZ	LYS A	83148.273	3.859	-12.490	1.00	0.00	N
ATOM	1198	H	LYS A	83147.941	2.011	-6.763	1.00	0.00	H

ATOM	1199	HA	LYS A	83147.313	4.707	-6.190	1.00	0.00	H
ATOM	1200	1HB	LYS A	83145.993	2.754	-8.081	1.00	0.00	H
ATOM	1201	2HB	LYS A	83145.684	4.484	-8.054	1.00	0.00	H
ATOM	1202	1HG	LYS A	83147.871	4.986	-8.786	1.00	0.00	H
ATOM	1203	2HG	LYS A	83148.421	3.334	-8.500	1.00	0.00	H
ATOM	1204	1HD	LYS A	83147.587	2.583	-10.456	1.00	0.00	H
ATOM	1205	2HD	LYS A	83146.147	3.598	-10.349	1.00	0.00	H
ATOM	1206	1HE	LYS A	83147.095	5.293	-11.500	1.00	0.00	H
ATOM	1207	2HE	LYS A	83148.686	5.025	-10.788	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83149.279	3.605	-12.422	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83148.139	4.483	-13.310	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83147.717	2.991	-12.635	1.00	0.00	H
ATOM	1211	N	LEU A	84145.307	4.735	-4.765	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.147	4.776	-3.883	1.00	0.00	C
ATOM	1213	C	LEU A	84142.855	4.587	-4.673	1.00	0.00	C
ATOM	1214	O	LEU A	84141.893	4.002	-4.176	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.108	6.105	-3.127	1.00	0.00	C
ATOM	1216	CG	LEU A	84142.878	6.316	-2.242	1.00	0.00	C
ATOM	1217	CD1	LEU A	84143.016	5.538	-0.942	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.672	7.795	-1.961	1.00	0.00	C
ATOM	1219	H	LEU A	84145.903	5.510	-4.806	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.242	3.970	-3.172	1.00	0.00	H
ATOM	1221	1HB	LEU A	84144.989	6.165	-2.504	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.145	6.906	-3.849	1.00	0.00	H
ATOM	1223	HG	LEU A	84142.004	5.947	-2.760	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84142.131	5.683	-0.340	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84143.882	5.890	-0.401	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84143.134	4.486	-1.162	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84141.827	7.923	-1.300	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84142.485	8.316	-2.887	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84143.558	8.200	-1.493	1.00	0.00	H

ATOM	1230	N	LYS A	85142.843	5.085	-5.904	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.670	4.971	-6.764	1.00	0.00	C
ATOM	1232	C	LYS A	85141.371	3.510	-7.086	1.00	0.00	C
ATOM	1233	O	LYS A	85140.226	3.147	-7.355	1.00	0.00	O
ATOM	1234	CB	LYS A	85141.882	5.757	-8.059	1.00	0.00	C
ATOM	1235	CG	LYS A	85143.234	5.509	-8.708	1.00	0.00	C
ATOM	1236	CD	LYS A	85144.209	6.639	-8.416	1.00	0.00	C
ATOM	1237	CE	LYS A	85145.050	6.980	-9.635	1.00	0.00	C
ATOM	1238	NZ	LYS A	85145.823	8.237	-9.443	1.00	0.00	N
ATOM	1239	H	LYS A	85143.642	5.540	-6.244	1.00	0.00	H
ATOM	1240	HA	LYS A	85140.829	5.389	-6.232	1.00	0.00	H
ATOM	1241	1HB	LYS A	85141.112	5.481	-8.764	1.00	0.00	H
ATOM	1242	2HB	LYS A	85141.798	6.812	-7.842	1.00	0.00	H
ATOM	1243	1HG	LYS A	85143.642	4.587	-8.325	1.00	0.00	H
ATOM	1244	2HG	LYS A	85143.099	5.429	-9.776	1.00	0.00	H
ATOM	1245	1HD	LYS A	85143.653	7.515	-8.119	1.00	0.00	H
ATOM	1246	2HD	LYS A	85144.863	6.336	-7.611	1.00	0.00	H
ATOM	1247	1HE	LYS A	85145.739	6.169	-9.820	1.00	0.00	H
ATOM	1248	2HE	LYS A	85144.396	7.096	-10.487	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85145.341	8.853	-8.758	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85145.911	8.745	-10.346	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85146.777	8.020	-9.087	1.00	0.00	H
ATOM	1252	N	SER A	86142.405	2.675	-7.058	1.00	0.00	N
ATOM	1253	CA	SER A	86142.248	1.255	-7.348	1.00	0.00	C
ATOM	1254	C	SER A	86142.150	0.442	-6.061	1.00	0.00	C
ATOM	1255	O	SER A	86142.547	-0.722	-6.017	1.00	0.00	O
ATOM	1256	CB	SER A	86143.421	0.752	-8.193	1.00	0.00	C
ATOM	1257	OG	SER A	86143.705	1.648	-9.254	1.00	0.00	O
ATOM	1258	H	SER A	86143.295	3.023	-6.838	1.00	0.00	H
ATOM	1259	HA	SER A	86141.334	1.130	-7.908	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.298	0.663	-7.569	1.00	0.00	H

ATOM 1261 2HB SER A 86143.176 -0.214 -8.608 1.00 0.00 H
 ATOM 1262 HG SER A 86144.344 1.247 -9.848 1.00 0.00 H
 ATOM 1263 N CYS A 87141.618 1.064 -5.012 1.00 0.00 N
 ATOM 1264 CA CYS A 87141.467 0.398 -3.724 1.00 0.00 C
 ATOM 1265 C CYS A 87139.994 0.260 -3.353 1.00 0.00 C
 ATOM 1266 O CYS A 87139.165 1.081 -3.747 1.00 0.00 O
 ATOM 1267 CB CYS A 87142.207 1.175 -2.634 1.00 0.00 C
 ATOM 1268 SG CYS A 87143.989 0.867 -2.590 1.00 0.00 S
 ATOM 1269 H CYS A 87141.319 1.992 -5.108 1.00 0.00 H
 ATOM 1270 HA CYS A 87141.898 -0.588 -3.808 1.00 0.00 H
 ATOM 1271 1HB CYS A 87142.062 2.233 -2.795 1.00 0.00 H
 ATOM 1272 2HB CYS A 87141.802 0.904 -1.670 1.00 0.00 H
 ATOM 1273 HG CYS A 87144.418 1.539 -3.125 1.00 0.00 H
 ATOM 1274 N ARG A 88139.674 -0.783 -2.595 1.00 0.00 N
 ATOM 1275 CA ARG A 88138.300 -1.027 -2.172 1.00 0.00 C
 ATOM 1276 C ARG A 88138.226 -1.247 -0.662 1.00 0.00 C
 ATOM 1277 O ARG A 88139.134 -1.828 -0.067 1.00 0.00 O
 ATOM 1278 CB ARG A 88137.728 -2.243 -2.903 1.00 0.00 C
 ATOM 1279 CG ARG A 88137.135 -1.911 -4.264 1.00 0.00 C
 ATOM 1280 CD ARG A 88135.620 -1.785 -4.199 1.00 0.00 C
 ATOM 1281 NE ARG A 88135.175 -0.413 -4.428 1.00 0.00 N
 ATOM 1282 CZ ARG A 88135.192 0.183 -5.618 1.00 0.00 C
 ATOM 1283 NH1 ARG A 88135.631 -0.468 -6.688 1.00 0.00 N
 ATOM 1284 NH2 ARG A 88134.768 1.433 -5.740 1.00 0.00 N
 ATOM 1285 H ARG A 88140.378 -1.403 -2.312 1.00 0.00 H
 ATOM 1286 HA ARG A 88137.715 -0.156 -2.427 1.00 0.00 H
 ATOM 1287 1HB ARG A 88138.517 -2.967 -3.046 1.00 0.00 H
 ATOM 1288 2HB ARG A 88136.953 -2.684 -2.294 1.00 0.00 H
 ATOM 1289 1HG ARG A 88137.549 -0.974 -4.607 1.00 0.00 H
 ATOM 1290 2HG ARG A 88137.392 -2.697 -4.958 1.00 0.00 H
 ATOM 1291 1HD ARG A 88135.186 -2.424 -4.953 1.00 0.00 H

ATOM 1292 2HD ARG A 88135.285 -2.103 -3.222 1.00 0.00 H
 ATOM 1293 HE ARG A 88134.846 0.092 -3.655 1.00 0.00 H
 ATOM 1294 1HH1 ARG A 88135.952 -1.412 -6.603 1.00 0.00 H
 ATOM 1295 2HH1 ARG A 88135.640 -0.016 -7.580 1.00 0.00 H
 ATOM 1296 1HH2 ARG A 88134.436 1.929 -4.938 1.00 0.00 H
 ATOM 1297 2HH2 ARG A 88134.780 1.881 -6.634 1.00 0.00 H
 ATOM 1298 N PRO A 89137.138 -0.787 -0.019 1.00 0.00 N
 ATOM 1299 CA PRO A 89136.954 -0.940 1.428 1.00 0.00 C
 ATOM 1300 C PRO A 89137.091 -2.390 1.877 1.00 0.00 C
 ATOM 1301 O PRO A 89136.444 -3.284 1.330 1.00 0.00 O
 ATOM 1302 CB PRO A 89135.526 -0.441 1.664 1.00 0.00 C
 ATOM 1303 CG PRO A 89135.249 0.476 0.523 1.00 0.00 C
 ATOM 1304 CD PRO A 89136.005 -0.084 -0.649 1.00 0.00 C
 ATOM 1305 HA PRO A 89137.650 -0.326 1.981 1.00 0.00 H
 ATOM 1306 1HB PRO A 89134.846 -1.280 1.672 1.00 0.00 H
 ATOM 1307 2HB PRO A 89135.476 0.079 2.609 1.00 0.00 H
 ATOM 1308 1HG PRO A 89134.189 0.491 0.314 1.00 0.00 H
 ATOM 1309 2HG PRO A 89135.602 1.469 0.758 1.00 0.00 H
 ATOM 1310 1HD PRO A 89135.384 -0.771 -1.205 1.00 0.00 H
 ATOM 1311 2HD PRO A 89136.354 0.714 -1.288 1.00 0.00 H
 ATOM 1312 N ASPA 90137.937 -2.618 2.876 1.00 0.00 N
 ATOM 1313 CA ASPA 90138.157 -3.961 3.398 1.00 0.00 C
 ATOM 1314 C ASPA 90137.366 -4.181 4.683 1.00 0.00 C
 ATOM 1315 O ASPA 90137.759 -3.716 5.754 1.00 0.00 O
 ATOM 1316 CB ASPA 90139.647 -4.192 3.658 1.00 0.00 C
 ATOM 1317 CG ASPA 90140.036 -5.653 3.537 1.00 0.00 C
 ATOM 1318 OD1 ASPA 90140.335 -6.275 4.578 1.00 0.00 O
 ATOM 1319 OD2 ASPA 90140.041 -6.174 2.403 1.00 0.00 O
 ATOM 1320 H ASPA 90138.424 -1.866 3.271 1.00 0.00 H
 ATOM 1321 HA ASPA 90137.817 -4.667 2.655 1.00 0.00 H
 ATOM 1322 1HB ASPA 90140.223 -3.626 2.941 1.00 0.00 H

ATOM 1323 2HB ASP A 90139.889 -3.855 4.654 1.00 0.00 H
 ATOM 1324 N SER A 91136.249 -4.893 4.571 1.00 0.00 N
 ATOM 1325 CA SER A 91135.403 -5.173 5.725 1.00 0.00 C
 ATOM 1326 C SER A 91135.694 -6.560 6.292 1.00 0.00 C
 ATOM 1327 O SER A 91134.834 -7.177 6.920 1.00 0.00 O
 ATOM 1328 CB SER A 91133.928 -5.070 5.339 1.00 0.00 C
 ATOM 1329 OG SER A 91133.139 -4.656 6.440 1.00 0.00 O
 ATOM 1330 H SER A 91135.988 -5.237 3.691 1.00 0.00 H
 ATOM 1331 HA SER A 91135.620 -4.435 6.482 1.00 0.00 H
 ATOM 1332 1HB SER A 91133.815 -4.351 4.541 1.00 0.00 H
 ATOM 1333 2HB SER A 91133.577 -6.036 5.005 1.00 0.00 H
 ATOM 1334 HG SER A 91132.431 -5.288 6.584 1.00 0.00 H
 ATOM 1335 N ARG A 92136.912 -7.045 6.069 1.00 0.00 N
 ATOM 1336 CA ARG A 92137.312 -8.358 6.561 1.00 0.00 C
 ATOM 1337 C ARG A 92137.327 -8.385 8.086 1.00 0.00 C
 ATOM 1338 O ARG A 92137.097 -9.426 8.702 1.00 0.00 O
 ATOM 1339 CB ARG A 92138.693 -8.731 6.019 1.00 0.00 C
 ATOM 1340 CG ARG A 92138.670 -9.221 4.580 1.00 0.00 C
 ATOM 1341 CD ARG A 92137.825 -10.475 4.432 1.00 0.00 C
 ATOM 1342 NE ARG A 92136.492 -10.179 3.911 1.00 0.00 N
 ATOM 1343 CZ ARG A 92136.232 -9.956 2.624 1.00 0.00 C
 ATOM 1344 NH1 ARG A 92137.209 -9.994 1.726 1.00 0.00 N
 ATOM 1345 NH2 ARG A 92134.992 -9.695 2.235 1.00 0.00 N
 ATOM 1346 H ARG A 92137.557 -6.509 5.564 1.00 0.00 H
 ATOM 1347 HA ARG A 92136.589 -9.078 6.208 1.00 0.00 H
 ATOM 1348 1HB ARG A 92139.334 -7.863 6.072 1.00 0.00 H
 ATOM 1349 2HB ARG A 92139.110 -9.513 6.636 1.00 0.00 H
 ATOM 1350 1HG ARG A 92138.257 -8.444 3.953 1.00 0.00 H
 ATOM 1351 2HG ARG A 92139.681 -9.438 4.269 1.00 0.00 H
 ATOM 1352 1HD ARG A 92138.324 -11.152 3.755 1.00 0.00 H
 ATOM 1353 2HD ARG A 92137.726 -10.944 5.400 1.00 0.00 H

ATOM 1354 HE ARG A 92135.752 -10.145 4.552 1.00 0.00 H
 ATOM 1355 1HH1 ARG A 92138.147 -10.191 2.013 1.00 0.00 H
 ATOM 1356 2HH1 ARG A 92137.007 -9.826 0.761 1.00 0.00 H
 ATOM 1357 1HH2 ARG A 92134.252 -9.666 2.907 1.00 0.00 H
 ATOM 1358 2HH2 ARG A 92134.796 -9.528 1.268 1.00 0.00 H
 ATOM 1359 N PHE A 93137.598 -7.232 8.690 1.00 0.00 N
 ATOM 1360 CA PHE A 93137.643 -7.121 10.144 1.00 0.00 C
 ATOM 1361 C PHE A 93136.506 -6.246 10.661 1.00 0.00 C
 ATOM 1362 O PHE A 93136.622 -5.622 11.715 1.00 0.00 O
 ATOM 1363 CB PHE A 93138.988 -6.547 10.591 1.00 0.00 C
 ATOM 1364 CG PHE A 93140.161 -7.413 10.229 1.00 0.00 C
 ATOM 1365 CD1 PHE A 93140.944 -7.988 11.217 1.00 0.00 C
 ATOM 1366 CD2 PHE A 93140.480 -7.652 8.903 1.00 0.00 C
 ATOM 1367 CE1 PHE A 93142.023 -8.787 10.889 1.00 0.00 C
 ATOM 1368 CE2 PHE A 93141.558 -8.449 8.567 1.00 0.00 C
 ATOM 1369 CZ PHE A 93142.331 -9.016 9.562 1.00 0.00 C
 ATOM 1370 H PHE A 93137.773 -6.436 8.146 1.00 0.00 H
 ATOM 1371 HA PHE A 93137.532 -8.114 10.555 1.00 0.00 H
 ATOM 1372 1HB PHE A 93139.132 -5.582 10.125 1.00 0.00 H
 ATOM 1373 2HB PHE A 93138.981 -6.425 11.664 1.00 0.00 H
 ATOM 1374 HD1 PHE A 93140.704 -7.809 12.255 1.00 0.00 H
 ATOM 1375 HD2 PHE A 93139.877 -7.208 8.124 1.00 0.00 H
 ATOM 1376 HE1 PHE A 93142.625 -9.228 11.668 1.00 0.00 H
 ATOM 1377 HE2 PHE A 93141.797 -8.627 7.529 1.00 0.00 H
 ATOM 1378 HZ PHE A 93143.175 -9.640 9.302 1.00 0.00 H
 ATOM 1379 N ALA A 94135.407 -6.203 9.912 1.00 0.00 N
 ATOM 1380 CA ALA A 94134.252 -5.403 10.300 1.00 0.00 C
 ATOM 1381 C ALA A 94133.515 -6.036 11.474 1.00 0.00 C
 ATOM 1382 O ALA A 94133.186 -7.221 11.448 1.00 0.00 O
 ATOM 1383 CB ALA A 94133.311 -5.227 9.116 1.00 0.00 C
 ATOM 1384 H ALA A 94135.373 -6.721 9.081 1.00 0.00 H

ATOM 1385 HA ALA A 94134.607 -4.426 10.594 1.00 0.00 H
 ATOM 1386 1HB ALA A 94133.533 -4.295 8.616 1.00 0.00 H
 ATOM 1387 2HB ALA A 94132.291 -5.213 9.466 1.00 0.00 H
 ATOM 1388 3HB ALA A 94133.444 -6.047 8.426 1.00 0.00 H
 ATOM 1389 N SER A 95133.257 -5.236 12.504 1.00 0.00 N
 ATOM 1390 CA SER A 95132.557 -5.717 13.689 1.00 0.00 C
 ATOM 1391 C SER A 95131.078 -5.939 13.396 1.00 0.00 C
 ATOM 1392 O SER A 95130.347 -4.997 13.093 1.00 0.00 O
 ATOM 1393 CB SER A 95132.718 -4.723 14.840 1.00 0.00 C
 ATOM 1394 OG SER A 95134.071 -4.626 15.247 1.00 0.00 O
 ATOM 1395 H SER A 95133.544 -4.299 12.466 1.00 0.00 H
 ATOM 1396 HA SER A 95133.001 -6.659 13.975 1.00 0.00 H
 ATOM 1397 1HB SER A 95132.379 -3.748 14.522 1.00 0.00 H
 ATOM 1398 2HB SER A 95132.124 -5.052 15.682 1.00 0.00 H
 ATOM 1399 HG SER A 95134.111 -4.383 16.175 1.00 0.00 H
 ATOM 1400 N LEU A 96130.643 -7.192 13.488 1.00 0.00 N
 ATOM 1401 CA LEU A 96129.250 -7.537 13.233 1.00 0.00 C
 ATOM 1402 C LEU A 96128.828 -8.744 14.064 1.00 0.00 C
 ATOM 1403 O LEU A 96128.824 -9.876 13.579 1.00 0.00 O
 ATOM 1404 CB LEU A 96129.039 -7.830 11.746 1.00 0.00 C
 ATOM 1405 CG LEU A 96128.713 -6.609 10.885 1.00 0.00 C
 ATOM 1406 CD1 LEU A 96129.040 -6.881 9.425 1.00 0.00 C
 ATOM 1407 CD2 LEU A 96127.249 -6.224 11.042 1.00 0.00 C
 ATOM 1408 H LEU A 96131.274 -7.900 13.734 1.00 0.00 H
 ATOM 1409 HA LEU A 96128.642 -6.691 13.513 1.00 0.00 H
 ATOM 1410 1HB LEU A 96129.940 -8.286 11.359 1.00 0.00 H
 ATOM 1411 2HB LEU A 96128.229 -8.537 11.650 1.00 0.00 H
 ATOM 1412 HG LEU A 96129.316 -5.774 11.212 1.00 0.00 H
 ATOM 1413 1HD1 LEU A 96129.355 -5.964 8.950 1.00 0.00 H
 ATOM 1414 2HD1 LEU A 96128.163 -7.263 8.924 1.00 0.00 H
 ATOM 1415 3HD1 LEU A 96129.835 -7.609 9.364 1.00 0.00 H

ATOM 1416 1HD2 LEU A 96126.884 -5.810 10.114 1.00 0.00 H
 ATOM 1417 2HD2 LEU A 96127.153 -5.488 11.828 1.00 0.00 H
 ATOM 1418 3HD2 LEU A 96126.672 -7.100 11.298 1.00 0.00 H
 ATOM 1419 N GLN A 97128.471 -8.495 15.320 1.00 0.00 N
 ATOM 1420 CA GLN A 97128.046 -9.560 16.220 1.00 0.00 C
 ATOM 1421 C GLN A 97126.659 -9.272 16.790 1.00 0.00 C
 ATOM 1422 O GLN A 97126.264 -8.114 16.928 1.00 0.00 O
 ATOM 1423 CB GLN A 97129.053 -9.725 17.361 1.00 0.00 C
 ATOM 1424 CG GLN A 97130.174 -10.704 17.045 1.00 0.00 C
 ATOM 1425 CD GLN A 97130.874 -11.208 18.292 1.00 0.00 C
 ATOM 1426 OE1 GLN A 97130.231 -11.632 19.251 1.00 0.00 O
 ATOM 1427 NE2 GLN A 97132.201 -11.162 18.283 1.00 0.00 N
 ATOM 1428 H GLN A 97128.494 -7.572 15.649 1.00 0.00 H
 ATOM 1429 HA GLN A 97128.005 -10.478 15.653 1.00 0.00 H
 ATOM 1430 1HB GLN A 97129.495 -8.764 17.578 1.00 0.00 H
 ATOM 1431 2HB GLN A 97128.533 -10.079 18.238 1.00 0.00 H
 ATOM 1432 1HG GLN A 97129.758 -11.550 16.518 1.00 0.00 H
 ATOM 1433 2HG GLN A 97130.899 -10.209 16.417 1.00 0.00 H
 ATOM 1434 1HE2 GLN A 97132.647 -10.812 17.485 1.00 0.00 H
 ATOM 1435 2HE2 GLN A 97132.681 -11.482 19.076 1.00 0.00 H
 ATOM 1436 N PRO A 98125.898 -10.327 17.129 1.00 0.00 N
 ATOM 1437 CA PRO A 98124.549 -10.181 17.686 1.00 0.00 C
 ATOM 1438 C PRO A 98124.566 -9.615 19.102 1.00 0.00 C
 ATOM 1439 O PRO A 98125.628 -9.439 19.699 1.00 0.00 O
 ATOM 1440 CB PRO A 98124.009 -11.613 17.690 1.00 0.00 C
 ATOM 1441 CG PRO A 98125.221 -12.475 17.756 1.00 0.00 C
 ATOM 1442 CD PRO A 98126.294 -11.743 16.998 1.00 0.00 C
 ATOM 1443 HA PRO A 98123.928 -9.560 17.059 1.00 0.00 H
 ATOM 1444 1HB PRO A 98123.372 -11.758 18.549 1.00 0.00 H
 ATOM 1445 2HB PRO A 98123.448 -11.791 16.784 1.00 0.00 H
 ATOM 1446 1HG PRO A 98125.517 -12.613 18.785 1.00 0.00 H

ATOM 1447 2HG PRO A 98125.019 -13.429 17.291 1.00 0.00 H
 ATOM 1448 1HD PRO A 98127.259 -11.917 17.448 1.00 0.00 H
 ATOM 1449 2HD PRO A 98126.297 -12.046 15.962 1.00 0.00 H
 ATOM 1450 N SER A 99123.382 -9.331 19.634 1.00 0.00 N
 ATOM 1451 CA SER A 99123.259 -8.784 20.981 1.00 0.00 C
 ATOM 1452 C SER A 99122.426 -9.703 21.868 1.00 0.00 C
 ATOM 1453 O SER A 99121.262 -9.977 21.575 1.00 0.00 O
 ATOM 1454 CB SER A 99122.626 -7.392 20.932 1.00 0.00 C
 ATOM 1455 OG SER A 99123.485 -6.463 20.292 1.00 0.00 O
 ATOM 1456 H SER A 99122.570 -9.493 19.109 1.00 0.00 H
 ATOM 1457 HA SER A 99124.252 -8.704 21.398 1.00 0.00 H
 ATOM 1458 1HB SER A 99121.697 -7.440 20.385 1.00 0.00 H
 ATOM 1459 2HB SER A 99122.434 -7.051 21.939 1.00 0.00 H
 ATOM 1460 HG SER A 99123.508 -5.648 20.798 1.00 0.00 H
 ATOM 1461 N GLY A 100123.030 -10.177 22.953 1.00 0.00 N
 ATOM 1462 CA GLY A 100122.328 -11.060 23.866 1.00 0.00 C
 ATOM 1463 C GLY A 100123.264 -11.750 24.840 1.00 0.00 C
 ATOM 1464 O GLY A 100124.480 -11.744 24.645 1.00 0.00 O
 ATOM 1465 H GLY A 100123.958 -9.925 23.135 1.00 0.00 H
 ATOM 1466 1HA GLY A 100121.606 -10.483 24.424 1.00 0.00 H
 ATOM 1467 2HA GLY A 100121.806 -11.811 23.292 1.00 0.00 H
 ATOM 1468 N PRO A 101122.723 -12.361 25.909 1.00 0.00 N
 ATOM 1469 CA PRO A 101123.532 -13.058 26.914 1.00 0.00 C
 ATOM 1470 C PRO A 101124.481 -14.075 26.289 1.00 0.00 C
 ATOM 1471 O PRO A 101124.058 -15.142 25.844 1.00 0.00 O
 ATOM 1472 CB PRO A 101122.490 -13.764 27.784 1.00 0.00 C
 ATOM 1473 CG PRO A 101121.251 -12.951 27.626 1.00 0.00 C
 ATOM 1474 CD PRO A 101121.283 -12.419 26.220 1.00 0.00 C
 ATOM 1475 HA PRO A 101124.098 -12.363 27.517 1.00 0.00 H
 ATOM 1476 1HB PRO A 101122.347 -14.775 27.430 1.00 0.00 H
 ATOM 1477 2HB PRO A 101122.824 -13.779 28.810 1.00 0.00 H

ATOM 1478 IHG PRO A 101120.382 -13.575 27.772 1.00 0.00 H
 ATOM 1479 2HG PRO A 101121.254 -12.137 28.336 1.00 0.00 H
 ATOM 1480 1HD PRO A 101120.770 -13.092 25.550 1.00 0.00 H
 ATOM 1481 2HD PRO A 101120.841 -11.434 26.180 1.00 0.00 H
 ATOM 1482 N SER A 102125.766 -13.737 26.259 1.00 0.00 N
 ATOM 1483 CA SER A 102126.776 -14.621 25.688 1.00 0.00 C
 ATOM 1484 C SER A 102128.162 -14.283 26.226 1.00 0.00 C
 ATOM 1485 O SER A 102128.405 -13.168 26.686 1.00 0.00 O
 ATOM 1486 CB SER A 102126.769 -14.520 24.162 1.00 0.00 C
 ATOM 1487 OG SER A 102127.881 -15.196 23.599 1.00 0.00 O
 ATOM 1488 H SER A 102126.042 -12.874 26.629 1.00 0.00 H
 ATOM 1489 HA SER A 102126.528 -15.633 25.973 1.00 0.00 H
 ATOM 1490 1HB SER A 102125.863 -14.962 23.776 1.00 0.00 H
 ATOM 1491 2HB SER A 102126.812 -13.480 23.873 1.00 0.00 H
 ATOM 1492 HG SER A 102128.175 -14.731 22.813 1.00 0.00 H
 ATOM 1493 N SER A 103129.067 -15.254 26.164 1.00 0.00 N
 ATOM 1494 CA SER A 103130.431 -15.060 26.645 1.00 0.00 C
 ATOM 1495 C SER A 103131.329 -16.216 26.219 1.00 0.00 C
 ATOM 1496 O SER A 103131.152 -17.349 26.666 1.00 0.00 O
 ATOM 1497 CB SER A 103130.442 -14.924 28.169 1.00 0.00 C
 ATOM 1498 OG SER A 103130.264 -16.183 28.794 1.00 0.00 O
 ATOM 1499 H SER A 103128.814 -16.122 25.786 1.00 0.00 H
 ATOM 1500 HA SER A 103130.808 -14.146 26.209 1.00 0.00 H
 ATOM 1501 1HB SER A 103131.388 -14.510 28.485 1.00 0.00 H
 ATOM 1502 2HB SER A 103129.641 -14.267 28.476 1.00 0.00 H
 ATOM 1503 HG SER A 103129.437 -16.186 29.280 1.00 0.00 H
 ATOM 1504 N GLY A 104132.292 -15.922 25.352 1.00 0.00 N
 ATOM 1505 CA GLY A 104133.203 -16.947 24.880 1.00 0.00 C
 ATOM 1506 C GLY A 104132.655 -17.708 23.689 1.00 0.00 C
 ATOM 1507 O GLY A 104133.079 -17.416 22.551 1.00 0.00 O
 ATOM 1508 OXT GLY A 104131.800 -18.596 23.893 1.00 0.00 O

ATOM 1509 H GLY A 104132.385 -15.001 25.030 1.00 0.00 H
 ATOM 1510 1HA GLY A 104134.137 -16.483 24.598 1.00 0.00 H
 ATOM 1511 2HA GLY A 104133.390 -17.645 25.683 1.00 0.00 H
 TER 1512 GLY A 104
 ENDMDL

Three-Dimensional Structure Coordinate Table 7

ATOM 1 N GLY A 1128.015 1.010 -10.316 1.00 0.00 N
 ATOM 2 CA GLY A 1127.655 -0.374 -10.731 1.00 0.00 C
 ATOM 3 C GLY A 1128.389 -1.429 -9.927 1.00 0.00 C
 ATOM 4 O GLY A 1128.645 -2.528 -10.420 1.00 0.00 O
 ATOM 5 1H GLY A 1129.039 1.078 -10.148 1.00 0.00 H
 ATOM 6 2H GLY A 1127.515 1.263 -9.441 1.00 0.00 H
 ATOM 7 3H GLY A 1127.751 1.686 -11.061 1.00 0.00 H
 ATOM 8 1HA GLY A 1126.592 -0.512 -10.600 1.00 0.00 H
 ATOM 9 2HA GLY A 1127.897 -0.499 -11.776 1.00 0.00 H
 ATOM10 N SER A 2128.728 -1.096 -8.686 1.00 0.00 N
 ATOM11 CA SER A 2129.437 -2.024 -7.813 1.00 0.00 C
 ATOM12 C SER A 2128.513 -2.562 -6.726 1.00 0.00 C
 ATOM13 O SER A 2128.240 -3.761 -6.667 1.00 0.00 O
 ATOM14 CB SER A 2130.645 -1.334 -7.176 1.00 0.00 C
 ATOM15 OG SER A 2131.499 -0.785 -8.163 1.00 0.00 O
 ATOM16 H SER A 2128.496 -0.205 -8.351 1.00 0.00 H
 ATOM17 HA SER A 2129.783 -2.849 -8.417 1.00 0.00 H
 ATOM18 1HB SER A 2130.304 -0.538 -6.531 1.00 0.00 H
 ATOM19 2HB SER A 2131.203 -2.054 -6.594 1.00 0.00 H
 ATOM20 HG SER A 2132.295 -0.445 -7.746 1.00 0.00 H
 ATOM21 N SER A 3128.033 -1.668 -5.868 1.00 0.00 N
 ATOM22 CA SER A 3127.138 -2.053 -4.782 1.00 0.00 C
 ATOM23 C SER A 3125.816 -1.298 -4.873 1.00 0.00 C
 ATOM24 O SER A 3125.217 -0.951 -3.856 1.00 0.00 O

ATOM25 CB SER A 3127.799 -1.786 -3.429 1.00 0.00 C
 ATOM26 OG SER A 3128.587 -0.609 -3.469 1.00 0.00 O
 ATOM27 H SER A 3128.287 -0.726 -5.966 1.00 0.00 H
 ATOM28 HA SER A 3126.942 -3.111 -4.873 1.00 0.00 H
 ATOM29 1HB SER A 3127.036 -1.666 -2.674 1.00 0.00 H
 ATOM30 2HB SER A 3128.434 -2.620 -3.170 1.00 0.00 H
 ATOM31 HG SER A 3128.100 0.088 -3.915 1.00 0.00 H
 ATOM32 N GLY A 4125.367 -1.048 -6.099 1.00 0.00 N
 ATOM33 CA GLY A 4124.119 -0.335 -6.299 1.00 0.00 C
 ATOM34 C GLY A 4124.265 1.160 -6.100 1.00 0.00 C
 ATOM35 O GLY A 4125.326 1.638 -5.697 1.00 0.00 O
 ATOM36 H GLY A 4125.887 -1.348 -6.873 1.00 0.00 H
 ATOM37 1HA GLY A 4123.769 -0.521 -7.304 1.00 0.00 H
 ATOM38 2HA GLY A 4123.386 -0.711 -5.600 1.00 0.00 H
 ATOM39 N SER A 5123.197 1.900 -6.381 1.00 0.00 N
 ATOM40 CA SER A 5123.211 3.351 -6.231 1.00 0.00 C
 ATOM41 C SER A 5122.158 3.804 -5.225 1.00 0.00 C
 ATOM42 O SER A 5121.565 4.872 -5.369 1.00 0.00 O
 ATOM43 CB SER A 5122.967 4.027 -7.581 1.00 0.00 C
 ATOM44 OG SER A 5123.746 5.203 -7.711 1.00 0.00 O
 ATOM45 H SER A 5122.380 1.460 -6.698 1.00 0.00 H
 ATOM46 HA SER A 5124.186 3.637 -5.866 1.00 0.00 H
 ATOM47 1HB SER A 5123.231 3.346 -8.376 1.00 0.00 H
 ATOM48 2HB SER A 5121.923 4.291 -7.665 1.00 0.00 H
 ATOM49 HG SER A 5123.666 5.731 -6.914 1.00 0.00 H
 ATOM50 N SER A 6121.929 2.982 -4.205 1.00 0.00 N
 ATOM51 CA SER A 6120.947 3.298 -3.175 1.00 0.00 C
 ATOM52 C SER A 6121.634 3.702 -1.874 1.00 0.00 C
 ATOM53 O SER A 6122.774 3.317 -1.617 1.00 0.00 O
 ATOM54 CB SER A 6120.031 2.097 -2.929 1.00 0.00 C
 ATOM55 OG SER A 6119.317 1.751 -4.103 1.00 0.00 O

ATOM56 H SER A 6122.434 2.144 -4.144 1.00 0.00 H
 ATOM57 HA SER A 6120.352 4.127 -3.527 1.00 0.00 H
 ATOM58 1HB SER A 6120.626 1.249 -2.622 1.00 0.00 H
 ATOM59 2HB SER A 6119.324 2.340 -2.149 1.00 0.00 H
 ATOM60 HG SER A 6118.645 1.100 -3.888 1.00 0.00 H
 ATOM61 N GLY A 7120.931 4.481 -1.058 1.00 0.00 N
 ATOM62 CA GLY A 7121.489 4.925 0.206 1.00 0.00 C
 ATOM63 C GLY A 7122.446 6.089 0.041 1.00 0.00 C
 ATOM64 O GLY A 7122.121 7.080 -0.613 1.00 0.00 O
 ATOM65 H GLY A 7120.027 4.756 -1.316 1.00 0.00 H
 ATOM66 1HA GLY A 7120.683 5.226 0.857 1.00 0.00 H
 ATOM67 2HA GLY A 7122.018 4.101 0.663 1.00 0.00 H
 ATOM68 N LEU A 8123.629 5.969 0.635 1.00 0.00 N
 ATOM69 CA LEU A 8124.636 7.021 0.551 1.00 0.00 C
 ATOM70 C LEU A 8125.948 6.474 -0.004 1.00 0.00 C
 ATOM71 O LEU A 8126.512 5.522 0.535 1.00 0.00 O
 ATOM72 CB LEU A 8124.873 7.642 1.930 1.00 0.00 C
 ATOM73 CG LEU A 8123.800 8.630 2.387 1.00 0.00 C
 ATOM74 CD1 LEU A 8123.646 8.590 3.899 1.00 0.00 C
 ATOM75 CD2 LEU A 8124.140 10.038 1.920 1.00 0.00 C
 ATOM76 H LEU A 8123.829 5.155 1.143 1.00 0.00 H
 ATOM77 HA LEU A 8124.266 7.782 -0.119 1.00 0.00 H
 ATOM78 1HB LEU A 8124.930 6.843 2.656 1.00 0.00 H
 ATOM79 2HB LEU A 8125.821 8.158 1.911 1.00 0.00 H
 ATOM80 HG LEU A 8122.852 8.351 1.948 1.00 0.00 H
 ATOM81 1HD1 LEU A 8122.870 7.887 4.164 1.00 0.00 H
 ATOM82 2HD1 LEU A 8123.380 9.572 4.260 1.00 0.00 H
 ATOM83 3HD1 LEU A 8124.579 8.282 4.347 1.00 0.00 H
 ATOM84 1HD2 LEU A 8124.270 10.041 0.848 1.00 0.00 H
 ATOM85 2HD2 LEU A 8125.054 10.363 2.396 1.00 0.00 H
 ATOM86 3HD2 LEU A 8123.337 10.709 2.187 1.00 0.00 H

ATOM87 N ALAA 9126.427 7.081 -1.085 1.00 0.00 N
 ATOM88 CA ALAA 9127.671 6.655 -1.713 1.00 0.00 C
 ATOM89 C ALAA 9128.282 7.780 -2.541 1.00 0.00 C
 ATOM90 O ALAA 9127.588 8.712 -2.947 1.00 0.00 O
 ATOM91 CB ALAA 9127.430 5.429 -2.580 1.00 0.00 C
 ATOM92 H ALAA 9125.931 7.834 -1.468 1.00 0.00 H
 ATOM93 HA ALAA 9128.363 6.381 -0.929 1.00 0.00 H
 ATOM94 1HB ALAA 9126.713 4.782 -2.099 1.00 0.00 H
 ATOM95 2HB ALAA 9128.360 4.897 -2.717 1.00 0.00 H
 ATOM96 3HB ALAA 9127.047 5.738 -3.542 1.00 0.00 H
 ATOM97 N META 10129.585 7.686 -2.786 1.00 0.00 N
 ATOM98 CA META 10130.290 8.696 -3.566 1.00 0.00 C
 ATOM99 C META 10131.574 8.124 -4.163 1.00 0.00 C
 ATOM 100 O META 10132.645 8.223 -3.564 1.00 0.00 O
 ATOM 101 CB META 10130.617 9.909 -2.692 1.00 0.00 C
 ATOM 102 CG META 10129.385 10.644 -2.188 1.00 0.00 C
 ATOM 103 SD META 10129.778 12.268 -1.509 1.00 0.00 S
 ATOM 104 CE META 10128.986 13.337 -2.709 1.00 0.00 C
 ATOM 105 H META 10130.084 6.919 -2.434 1.00 0.00 H
 ATOM 106 HA META 10129.641 9.008 -4.370 1.00 0.00 H
 ATOM 107 1HB META 10131.188 9.579 -1.838 1.00 0.00 H
 ATOM 108 2HB META 10131.213 10.602 -3.267 1.00 0.00 H
 ATOM 109 1HG META 10128.697 10.771 -3.010 1.00 0.00 H
 ATOM 110 2HG META 10128.919 10.050 -1.416 1.00 0.00 H
 ATOM 111 1HE META 10128.189 13.886 -2.232 1.00 0.00 H
 ATOM 112 2HE META 10128.582 12.738 -3.512 1.00 0.00 H
 ATOM 113 3HE META 10129.713 14.030 -3.107 1.00 0.00 H
 ATOM 114 N PRO A 11131.483 7.516 -5.359 1.00 0.00 N
 ATOM 115 CA PRO A 11132.643 6.928 -6.035 1.00 0.00 C
 ATOM 116 C PRO A 11133.751 7.950 -6.283 1.00 0.00 C
 ATOM 117 O PRO A 11134.920 7.684 -6.004 1.00 0.00 O

ATOM	118	CB	PRO A	11132.081	6.413	-7.364	1.00	0.00	C
ATOM	119	CG	PRO A	11130.608	6.310	-7.156	1.00	0.00	C
ATOM	120	CD	PRO A	11130.246	7.356	-6.140	1.00	0.00	C
ATOM	121	HA	PRO A	11133.046	6.101	-5.469	1.00	0.00	H
ATOM	122	1HB	PRO A	11132.320	7.112	-8.152	1.00	0.00	H
ATOM	123	2HB	PRO A	11132.514	5.451	-7.589	1.00	0.00	H
ATOM	124	1HG	PRO A	11130.095	6.502	-8.085	1.00	0.00	H
ATOM	125	2HG	PRO A	11130.359	5.326	-6.786	1.00	0.00	H
ATOM	126	1HD	PRO A	11129.976	8.280	-6.630	1.00	0.00	H
ATOM	127	2HD	PRO A	11129.437	7.010	-5.514	1.00	0.00	H
ATOM	128	N	PRO A	12133.404	9.140	-6.810	1.00	0.00	N
ATOM	129	CA	PRO A	12134.388	10.193	-7.083	1.00	0.00	C
ATOM	130	C	PRO A	12135.197	10.557	-5.844	1.00	0.00	C
ATOM	131	O	PRO A	12136.300	11.094	-5.944	1.00	0.00	O
ATOM	132	CB	PRO A	12133.533	11.382	-7.530	1.00	0.00	C
ATOM	133	CG	PRO A	12132.261	10.781	-8.015	1.00	0.00	C
ATOM	134	CD	PRO A	12132.036	9.557	-7.172	1.00	0.00	C
ATOM	135	HA	PRO A	12135.060	9.908	-7.880	1.00	0.00	H
ATOM	136	1HB	PRO A	12133.364	12.042	-6.691	1.00	0.00	H
ATOM	137	2HB	PRO A	12134.040	11.918	-8.318	1.00	0.00	H
ATOM	138	1HG	PRO A	12131.450	11.481	-7.884	1.00	0.00	H
ATOM	139	2HG	PRO A	12132.357	10.506	-9.055	1.00	0.00	H
ATOM	140	1HD	PRO A	12131.462	9.806	-6.292	1.00	0.00	H
ATOM	141	2HD	PRO A	12131.537	8.792	-7.746	1.00	0.00	H
ATOM	142	N	GLY A	13134.641	10.259	-4.673	1.00	0.00	N
ATOM	143	CA	GLY A	13135.325	10.562	-3.429	1.00	0.00	C
ATOM	144	C	GLY A	13136.013	9.350	-2.835	1.00	0.00	C
ATOM	145	O	GLY A	13135.664	8.902	-1.743	1.00	0.00	O
ATOM	146	H	GLY A	13133.758	9.830	-4.653	1.00	0.00	H
ATOM	147	1HA	GLY A	13136.063	11.328	-3.615	1.00	0.00	H
ATOM	148	2HA	GLY A	13134.604	10.938	-2.717	1.00	0.00	H

ATOM	149	N	ASNA	14136.995	8.818	-3.554	1.00	0.00	N
ATOM	150	CA	ASNA	14137.736	7.650	-3.092	1.00	0.00	C
ATOM	151	C	ASNA	14136.803	6.459	-2.890	1.00	0.00	C
ATOM	152	O	ASNA	14136.816	5.818	-1.839	1.00	0.00	O
ATOM	153	CB	ASNA	14138.469	7.970	-1.786	1.00	0.00	C
ATOM	154	CG	ASNA	14139.436	9.126	-1.935	1.00	0.00	C
ATOM	155	OD1	ASNA	14140.104	9.265	-2.961	1.00	0.00	O
ATOM	156	ND2	ASNA	14139.519	9.965	-0.909	1.00	0.00	N
ATOM	157	H	ASNA	14137.228	9.220	-4.417	1.00	0.00	H
ATOM	158	HA	ASNA	14138.463	7.398	-3.848	1.00	0.00	H
ATOM	159	1HB	ASNA	14137.743	8.227	-1.028	1.00	0.00	H
ATOM	160	2HB	ASNA	14139.022	7.098	-1.468	1.00	0.00	H
ATOM	161	1HD2	ASNA	14138.958	9.793	-0.124	1.00	0.00	H
ATOM	162	2HD2	ASNA	14140.137	10.722	-0.978	1.00	0.00	H
ATOM	163	N	SERA	15135.996	6.168	-3.905	1.00	0.00	N
ATOM	164	CA	SERA	15135.055	5.054	-3.844	1.00	0.00	C
ATOM	165	C	SERA	15134.001	5.290	-2.766	1.00	0.00	C
ATOM	166	O	SERA	15132.873	5.682	-3.063	1.00	0.00	O
ATOM	167	CB	SERA	15135.798	3.742	-3.575	1.00	0.00	C
ATOM	168	OG	SERA	15136.062	3.049	-4.783	1.00	0.00	O
ATOM	169	H	SERA	15136.034	6.716	-4.718	1.00	0.00	H
ATOM	170	HA	SERA	15134.562	4.986	-4.802	1.00	0.00	H
ATOM	171	1HB	SERA	15136.736	3.957	-3.085	1.00	0.00	H
ATOM	172	2HB	SERA	15135.194	3.114	-2.938	1.00	0.00	H
ATOM	173	HG	SERA	15136.234	2.124	-4.589	1.00	0.00	H
ATOM	174	N	HISA	16134.376	5.049	-1.514	1.00	0.00	N
ATOM	175	CA	HISA	16133.462	5.237	-0.393	1.00	0.00	C
ATOM	176	C	HISA	16134.143	5.997	0.742	1.00	0.00	C
ATOM	177	O	HISA	16133.685	7.064	1.150	1.00	0.00	O
ATOM	178	CB	HISA	16132.957	3.883	0.113	1.00	0.00	C
ATOM	179	CG	HISA	16131.570	3.555	-0.342	1.00	0.00	C

ATOM	180	ND1	HIS A	16130.456	3.728	0.453	1.00	0.00	N
ATOM	181	CD2	HIS A	16131.115	3.061	-1.519	1.00	0.00	C
ATOM	182	CE1	HIS A	16129.377	3.355	-0.214	1.00	0.00	C
ATOM	183	NE2	HIS A	16129.751	2.947	-1.413	1.00	0.00	N
ATOM	184	H	HIS A	16135.289	4.740	-1.339	1.00	0.00	H
ATOM	185	HA	HIS A	16132.622	5.817	-0.744	1.00	0.00	H
ATOM	186	1HB	HIS A	16133.616	3.105	-0.245	1.00	0.00	H
ATOM	187	2HB	HIS A	16132.962	3.883	1.193	1.00	0.00	H
ATOM	188	HD1	HIS A	16130.456	4.074	1.370	1.00	0.00	H
ATOM	189	HD2	HIS A	16131.715	2.805	-2.381	1.00	0.00	H
ATOM	190	HE1	HIS A	16128.364	3.381	0.158	1.00	0.00	H
ATOM	191	HE2	HIS A	16129.161	2.533	-2.078	1.00	0.00	H
ATOM	192	N	GLY A	17135.238	5.440	1.246	1.00	0.00	N
ATOM	193	CA	GLY A	17135.964	6.079	2.329	1.00	0.00	C
ATOM	194	C	GLY A	17137.320	5.446	2.570	1.00	0.00	C
ATOM	195	O	GLY A	17137.588	4.929	3.654	1.00	0.00	O
ATOM	196	H	GLY A	17135.557	4.588	0.881	1.00	0.00	H
ATOM	197	1HA	GLY A	17136.104	7.122	2.087	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.378	6.004	3.233	1.00	0.00	H
ATOM	199	N	LEU A	18138.179	5.487	1.556	1.00	0.00	N
ATOM	200	CA	LEU A	18139.516	4.914	1.663	1.00	0.00	C
ATOM	201	C	LEU A	18140.514	5.950	2.171	1.00	0.00	C
ATOM	202	O	LEU A	18140.889	6.873	1.448	1.00	0.00	O
ATOM	203	CB	LEU A	18139.972	4.374	0.306	1.00	0.00	C
ATOM	204	CG	LEU A	18138.938	3.521	-0.431	1.00	0.00	C
ATOM	205	CD1	LEU A	18139.197	3.545	-1.929	1.00	0.00	C
ATOM	206	CD2	LEU A	18138.957	2.092	0.092	1.00	0.00	C
ATOM	207	H	LEU A	18137.907	5.914	0.717	1.00	0.00	H
ATOM	208	HA	LEU A	18139.471	4.098	2.369	1.00	0.00	H
ATOM	209	1HB	LEU A	18140.231	5.213	-0.323	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.856	3.774	0.460	1.00	0.00	H

ATOM	211	HG	LEU A	18137.954	3.929	-0.256	1.00	0.00	H
ATOM	212	1HD1	LEU A	18138.664	2.732	-2.399	1.00	0.00	H
ATOM	213	2HD1	LEU A	18140.255	3.436	-2.114	1.00	0.00	H
ATOM	214	3HD1	LEU A	18138.855	4.484	-2.338	1.00	0.00	H
ATOM	215	1HD2	LEU A	18139.980	1.770	0.220	1.00	0.00	H
ATOM	216	2HD2	LEU A	18138.461	1.443	-0.615	1.00	0.00	H
ATOM	217	3HD2	LEU A	18138.445	2.050	1.041	1.00	0.00	H
ATOM	218	N	GLU A	19140.937	5.792	3.420	1.00	0.00	N
ATOM	219	CA	GLU A	19141.892	6.714	4.026	1.00	0.00	C
ATOM	220	C	GLU A	19142.828	5.978	4.980	1.00	0.00	C
ATOM	221	O	GLU A	19142.700	4.771	5.184	1.00	0.00	O
ATOM	222	CB	GLU A	19141.153	7.825	4.774	1.00	0.00	C
ATOM	223	CG	GLU A	19140.096	7.312	5.737	1.00	0.00	C
ATOM	224	CD	GLU A	19140.078	8.078	7.045	1.00	0.00	C
ATOM	225	OE1	GLU A	19139.086	8.792	7.302	1.00	0.00	O
ATOM	226	OE2	GLU A	19141.056	7.963	7.814	1.00	0.00	O
ATOM	227	H	GLU A	19140.601	5.037	3.947	1.00	0.00	H
ATOM	228	HA	GLU A	19142.478	7.153	3.233	1.00	0.00	H
ATOM	229	1HB	GLU A	19141.872	8.403	5.336	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.672	8.469	4.053	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.127	7.406	5.270	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.294	6.271	5.948	1.00	0.00	H
ATOM	233	N	VAL A	20143.770	6.715	5.562	1.00	0.00	N
ATOM	234	CA	VAL A	20144.726	6.133	6.495	1.00	0.00	C
ATOM	235	C	VAL A	20144.014	5.482	7.678	1.00	0.00	C
ATOM	236	O	VAL A	20143.052	6.032	8.215	1.00	0.00	O
ATOM	237	CB	VAL A	20145.712	7.194	7.023	1.00	0.00	C
ATOM	238	CG1	VAL A	20146.786	6.547	7.885	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.337	7.962	5.868	1.00	0.00	C
ATOM	240	H	VAL A	20143.820	7.673	5.360	1.00	0.00	H
ATOM	241	HA	VAL A	20145.291	5.378	5.968	1.00	0.00	H

ATOM	242	HB	VAL A	20145.162	7.893	7.636	1.00	0.00	H
ATOM	243	1HG1	VAL A	20146.375	6.316	8.857	1.00	0.00	H
ATOM	244	2HG1	VAL A	20147.615	7.229	7.999	1.00	0.00	H
ATOM	245	3HG1	VAL A	20147.129	5.638	7.413	1.00	0.00	H
ATOM	246	1HG2	VAL A	20147.314	8.318	6.159	1.00	0.00	H
ATOM	247	2HG2	VAL A	20145.708	8.802	5.613	1.00	0.00	H
ATOM	248	3HG2	VAL A	20146.431	7.310	5.012	1.00	0.00	H
ATOM	249	N	GLY A	21144.493	4.309	8.077	1.00	0.00	N
ATOM	250	CA	GLY A	21143.890	3.603	9.192	1.00	0.00	C
ATOM	251	C	GLY A	21142.852	2.592	8.746	1.00	0.00	C
ATOM	252	O	GLY A	21142.800	1.477	9.261	1.00	0.00	O
ATOM	253	H	GLY A	21145.263	3.919	7.611	1.00	0.00	H
ATOM	254	1HA	GLY A	21144.666	3.088	9.740	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.419	4.321	9.846	1.00	0.00	H
ATOM	256	N	SER A	22142.024	2.985	7.783	1.00	0.00	N
ATOM	257	CA	SER A	22140.981	2.106	7.266	1.00	0.00	C
ATOM	258	C	SER A	22141.573	1.041	6.348	1.00	0.00	C
ATOM	259	O	SER A	22142.497	1.314	5.581	1.00	0.00	O
ATOM	260	CB	SER A	22139.928	2.918	6.510	1.00	0.00	C
ATOM	261	OG	SER A	22139.576	4.090	7.227	1.00	0.00	O
ATOM	262	H	SER A	22142.115	3.887	7.412	1.00	0.00	H
ATOM	263	HA	SER A	22140.512	1.619	8.107	1.00	0.00	H
ATOM	264	1HB	SER A	22140.321	3.206	5.547	1.00	0.00	H
ATOM	265	2HB	SER A	22139.042	2.316	6.372	1.00	0.00	H
ATOM	266	HG	SER A	22140.307	4.712	7.202	1.00	0.00	H
ATOM	267	N	LEU A	23141.037	-0.171	6.433	1.00	0.00	N
ATOM	268	CA	LEU A	23141.513	-1.277	5.610	1.00	0.00	C
ATOM	269	C	LEU A	23141.115	-1.081	4.150	1.00	0.00	C
ATOM	270	O	LEU A	23140.071	-0.500	3.854	1.00	0.00	O
ATOM	271	CB	LEU A	23140.956	-2.603	6.129	1.00	0.00	C
ATOM	272	CG	LEU A	23141.330	-2.942	7.574	1.00	0.00	C

ATOM	273	CD1	LEU A	23140.251	-3.798	8.217	1.00	0.00	C
ATOM	274	CD2	LEU A	23142.675	-3.649	7.623	1.00	0.00	C
ATOM	275	H	LEU A	23140.303	-0.327	7.064	1.00	0.00	H
ATOM	276	HA	LEU A	23142.590	-1.299	5.677	1.00	0.00	H
ATOM	277	1HB	LEU A	23139.878	-2.570	6.056	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.319	-3.396	5.492	1.00	0.00	H
ATOM	279	HG	LEU A	23141.411	-2.026	8.140	1.00	0.00	H
ATOM	280	1HD1	LEU A	23140.197	-3.576	9.273	1.00	0.00	H
ATOM	281	2HD1	LEU A	23140.490	-4.843	8.080	1.00	0.00	H
ATOM	282	3HD1	LEU A	23139.298	-3.584	7.756	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.218	-3.332	8.501	1.00	0.00	H
ATOM	284	2HD2	LEU A	23143.245	-3.402	6.739	1.00	0.00	H
ATOM	285	3HD2	LEU A	23142.519	-4.718	7.662	1.00	0.00	H
ATOM	286	N	ALAA	24141.955	-1.570	3.243	1.00	0.00	N
ATOM	287	CA	ALAA	24141.691	-1.451	1.815	1.00	0.00	C
ATOM	288	C	ALAA	24142.305	-2.615	1.045	1.00	0.00	C
ATOM	289	O	ALAA	24143.292	-3.209	1.480	1.00	0.00	O
ATOM	290	CB	ALAA	24142.226	-0.127	1.289	1.00	0.00	C
ATOM	291	H	ALAA	24142.771	-2.023	3.542	1.00	0.00	H
ATOM	292	HA	ALAA	24140.621	-1.462	1.671	1.00	0.00	H
ATOM	293	1HB	ALAA	24142.507	-0.239	0.251	1.00	0.00	H
ATOM	294	2HB	ALAA	24143.091	0.166	1.866	1.00	0.00	H
ATOM	295	3HB	ALAA	24141.461	0.630	1.375	1.00	0.00	H
ATOM	296	N	GLU A	25141.715	-2.937	-0.102	1.00	0.00	N
ATOM	297	CA	GLU A	25142.205	-4.032	-0.932	1.00	0.00	C
ATOM	298	C	GLU A	25142.605	-3.530	-2.316	1.00	0.00	C
ATOM	299	O	GLU A	25142.089	-2.519	-2.793	1.00	0.00	O
ATOM	300	CB	GLU A	25141.136	-5.119	-1.062	1.00	0.00	C
ATOM	301	CG	GLU A	25141.708	-6.516	-1.245	1.00	0.00	C
ATOM	302	CD	GLU A	25140.729	-7.464	-1.909	1.00	0.00	C
ATOM	303	OE1	GLU A	25139.929	-6.999	-2.749	1.00	0.00	O

ATOM	304	OE2	GLU A	25140.762	-8.671	-1.590	1.00	0.00	O
ATOM	305	H	GLU A	25140.932	-2.428	-0.396	1.00	0.00	H
ATOM	306	HA	GLU A	25143.075	-4.452	-0.449	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.527	-5.117	-0.170	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.512	-4.894	-1.915	1.00	0.00	H
ATOM	309	1HG	GLU A	25142.594	-6.451	-1.858	1.00	0.00	H
ATOM	310	2HG	GLU A	25141.970	-6.913	-0.275	1.00	0.00	H
ATOM	311	N	VAL A	26143.528	-4.243	-2.954	1.00	0.00	N
ATOM	312	CA	VAL A	26143.998	-3.869	-4.282	1.00	0.00	C
ATOM	313	C	VAL A	26143.826	-5.020	-5.268	1.00	0.00	C
ATOM	314	O	VAL A	26144.136	-6.170	-4.955	1.00	0.00	O
ATOM	315	CB	VAL A	26145.480	-3.446	-4.258	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.909	-2.913	-5.616	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.722	-2.410	-3.170	1.00	0.00	C
ATOM	318	H	VAL A	26143.901	-5.039	-2.521	1.00	0.00	H
ATOM	319	HA	VAL A	26143.411	-3.027	-4.621	1.00	0.00	H
ATOM	320	HB	VAL A	26146.078	-4.318	-4.033	1.00	0.00	H
ATOM	321	1HG1	VAL A	26145.900	-1.833	-5.598	1.00	0.00	H
ATOM	322	2HG1	VAL A	26145.225	-3.266	-6.374	1.00	0.00	H
ATOM	323	3HG1	VAL A	26146.905	-3.261	-5.841	1.00	0.00	H
ATOM	324	1HG2	VAL A	26146.651	-2.631	-2.663	1.00	0.00	H
ATOM	325	2HG2	VAL A	26144.909	-2.434	-2.460	1.00	0.00	H
ATOM	326	3HG2	VAL A	26145.781	-1.428	-3.616	1.00	0.00	H
ATOM	327	N	LYS A	27143.330	-4.704	-6.460	1.00	0.00	N
ATOM	328	CA	LYS A	27143.116	-5.712	-7.491	1.00	0.00	C
ATOM	329	C	LYS A	27144.437	-6.118	-8.137	1.00	0.00	C
ATOM	330	O	LYS A	27144.790	-5.631	-9.211	1.00	0.00	O
ATOM	331	CB	LYS A	27142.155	-5.184	-8.558	1.00	0.00	C
ATOM	332	CG	LYS A	27140.694	-5.475	-8.257	1.00	0.00	C
ATOM	333	CD	LYS A	27139.793	-4.342	-8.722	1.00	0.00	C
ATOM	334	CE	LYS A	27138.436	-4.857	-9.172	1.00	0.00	C

ATOM	335	NZ	LYS A	27137.427	-4.798	-8.079	1.00	0.00	N
ATOM	336	H	LYS A	27143.102	-3.769	-6.649	1.00	0.00	H
ATOM	337	HA	LYS A	27142.677	-6.579	-7.021	1.00	0.00	H
ATOM	338	1HB	LYS A	27142.277	-4.114	-8.639	1.00	0.00	H
ATOM	339	2HB	LYS A	27142.403	-5.638	-9.506	1.00	0.00	H
ATOM	340	1HG	LYS A	27140.405	-6.382	-8.767	1.00	0.00	H
ATOM	341	2HG	LYS A	27140.574	-5.604	-7.192	1.00	0.00	H
ATOM	342	1HD	LYS A	27139.650	-3.651	-7.905	1.00	0.00	H
ATOM	343	2HD	LYS A	27140.268	-3.833	-9.549	1.00	0.00	H
ATOM	344	1HE	LYS A	27138.092	-4.255	-10.000	1.00	0.00	H
ATOM	345	2HE	LYS A	27138.544	-5.883	-9.497	1.00	0.00	H
ATOM	346	1HZ	LYS A	27136.494	-4.552	-8.466	1.00	0.00	H
ATOM	347	2HZ	LYS A	27137.700	-4.079	-7.379	1.00	0.00	H
ATOM	348	3HZ	LYS A	27137.361	-5.721	-7.603	1.00	0.00	H
ATOM	349	N	GLU A	28145.162	-7.014	-7.475	1.00	0.00	N
ATOM	350	CA	GLU A	28146.444	-7.487	-7.986	1.00	0.00	C
ATOM	351	C	GLU A	28146.465	-9.010	-8.076	1.00	0.00	C
ATOM	352	O	GLU A	28145.504	-9.678	-7.694	1.00	0.00	O
ATOM	353	CB	GLU A	28147.585	-6.998	-7.090	1.00	0.00	C
ATOM	354	CG	GLU A	28148.729	-6.358	-7.858	1.00	0.00	C
ATOM	355	CD	GLU A	28149.850	-5.889	-6.951	1.00	0.00	C
ATOM	356	OE1	GLU A	28150.027	-4.661	-6.811	1.00	0.00	O
ATOM	357	OE2	GLU A	28150.550	-6.751	-6.378	1.00	0.00	O
ATOM	358	H	GLU A	28144.828	-7.367	-6.625	1.00	0.00	H
ATOM	359	HA	GLU A	28146.577	-7.079	-8.976	1.00	0.00	H
ATOM	360	1HB	GLU A	28147.195	-6.271	-6.394	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.979	-7.838	-6.535	1.00	0.00	H
ATOM	362	1HG	GLU A	28149.129	-7.080	-8.553	1.00	0.00	H
ATOM	363	2HG	GLU A	28148.348	-5.507	-8.404	1.00	0.00	H
ATOM	364	N	ASN A	29147.568	-9.551	-8.582	1.00	0.00	N
ATOM	365	CA	ASN A	29147.716	-10.996	-8.721	1.00	0.00	C

ATOM	366	C	ASN A	29147.613	-11.688	-7.363	1.00	0.00	C
ATOM	367	O	ASN A	29146.752	-12.543	-7.158	1.00	0.00	O
ATOM	368	CB	ASN A	29149.055	-11.331	-9.380	1.00	0.00	C
ATOM	369	CG	ASN A	29148.926	-11.543	-10.876	1.00	0.00	C
ATOM	370	OD1	ASN A	29149.065	-12.662	-11.371	1.00	0.00	O
ATOM	371	ND2	ASN A	29148.660	-10.465	-11.605	1.00	0.00	N
ATOM	372	H	ASN A	29148.301	-8.967	-8.868	1.00	0.00	H
ATOM	373	HA	ASN A	29146.915	-11.351	-9.353	1.00	0.00	H
ATOM	374	1HB	ASN A	29149.747	-10.520	-9.210	1.00	0.00	H
ATOM	375	2HB	ASN A	29149.451	-12.235	-8.939	1.00	0.00	H
ATOM	376	1HD2	ASN A	29148.563	-9.606	-11.144	1.00	0.00	H
ATOM	377	2HD2	ASN A	29148.571	-10.574	-12.575	1.00	0.00	H
ATOM	378	N	PRO A	30148.497	-11.327	-6.416	1.00	0.00	N
ATOM	379	CA	PRO A	30148.502	-11.917	-5.076	1.00	0.00	C
ATOM	380	C	PRO A	30147.380	-11.368	-4.195	1.00	0.00	C
ATOM	381	O	PRO A	30147.416	-10.208	-3.786	1.00	0.00	O
ATOM	382	CB	PRO A	30149.865	-11.505	-4.521	1.00	0.00	C
ATOM	383	CG	PRO A	30150.175	-10.219	-5.206	1.00	0.00	C
ATOM	384	CD	PRO A	30149.559	-10.314	-6.578	1.00	0.00	C
ATOM	385	HA	PRO A	30148.437	-12.993	-5.117	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.797	-11.378	-3.450	1.00	0.00	H
ATOM	387	2HB	PRO A	30150.597	-12.263	-4.755	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.739	-9.397	-4.657	1.00	0.00	H
ATOM	389	2HG	PRO A	30151.244	-10.094	-5.285	1.00	0.00	H
ATOM	390	1HD	PRO A	30149.142	-9.362	-6.870	1.00	0.00	H
ATOM	391	2HD	PRO A	30150.294	-10.640	-7.298	1.00	0.00	H
ATOM	392	N	PRO A	31146.363	-12.196	-3.889	1.00	0.00	N
ATOM	393	CA	PRO A	31145.234	-11.777	-3.052	1.00	0.00	C
ATOM	394	C	PRO A	31145.642	-11.550	-1.601	1.00	0.00	C
ATOM	395	O	PRO A	31145.519	-12.444	-0.764	1.00	0.00	O
ATOM	396	CB	PRO A	31144.257	-12.951	-3.155	1.00	0.00	C

ATOM	397	CG	PRO A	31145.111	-14.127	-3.484	1.00	0.00	C
ATOM	398	CD	PRO A	31146.234	-13.598	-4.331	1.00	0.00	C
ATOM	399	HA	PRO A	31144.767	-10.882	-3.438	1.00	0.00	H
ATOM	400	1HB	PRO A	31143.748	-13.083	-2.212	1.00	0.00	H
ATOM	401	2HB	PRO A	31143.537	-12.757	-3.936	1.00	0.00	H
ATOM	402	1HG	PRO A	31145.499	-14.563	-2.575	1.00	0.00	H
ATOM	403	2HG	PRO A	31144.536	-14.855	-4.037	1.00	0.00	H
ATOM	404	1HD	PRO A	31147.143	-14.148	-4.138	1.00	0.00	H
ATOM	405	2HD	PRO A	31145.974	-13.649	-5.378	1.00	0.00	H
ATOM	406	N	PHE A	32146.130	-10.348	-1.310	1.00	0.00	N
ATOM	407	CA	PHE A	32146.557	-10.002	0.040	1.00	0.00	C
ATOM	408	C	PHE A	32145.562	-9.052	0.699	1.00	0.00	C
ATOM	409	O	PHE A	32144.630	-8.569	0.056	1.00	0.00	O
ATOM	410	CB	PHE A	32147.947	-9.364	0.009	1.00	0.00	C
ATOM	411	CG	PHE A	32148.016	-8.116	-0.824	1.00	0.00	C
ATOM	412	CD1	PHE A	32148.649	-8.124	-2.056	1.00	0.00	C
ATOM	413	CD2	PHE A	32147.447	-6.935	-0.374	1.00	0.00	C
ATOM	414	CE1	PHE A	32148.713	-6.978	-2.825	1.00	0.00	C
ATOM	415	CE2	PHE A	32147.508	-5.785	-1.139	1.00	0.00	C
ATOM	416	CZ	PHE A	32148.143	-5.807	-2.366	1.00	0.00	C
ATOM	417	H	PHE A	32146.203	-9.678	-2.022	1.00	0.00	H
ATOM	418	HA	PHE A	32146.602	-10.913	0.617	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.240	-9.107	1.017	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.652	-10.075	-0.395	1.00	0.00	H
ATOM	421	HD1	PHE A	32149.095	-9.039	-2.416	1.00	0.00	H
ATOM	422	HD2	PHE A	32146.950	-6.918	0.584	1.00	0.00	H
ATOM	423	HE1	PHE A	32149.211	-6.997	-3.784	1.00	0.00	H
ATOM	424	HE2	PHE A	32147.060	-4.872	-0.778	1.00	0.00	H
ATOM	425	HZ	PHE A	32148.192	-4.910	-2.965	1.00	0.00	H
ATOM	426	N	TYR A	33145.770	-8.785	1.984	1.00	0.00	N
ATOM	427	CA	TYR A	33144.892	-7.892	2.731	1.00	0.00	C

ATOM	428	C	TYR A	33145.696	-7.001	3.673	1.00	0.00	C
ATOM	429	O	TYR A	33146.335	-7.487	4.607	1.00	0.00	O
ATOM	430	CB	TYR A	33143.865	-8.699	3.527	1.00	0.00	C
ATOM	431	CG	TYR A	33142.662	-9.121	2.712	1.00	0.00	C
ATOM	432	CD1	TYR A	33141.948	-8.193	1.962	1.00	0.00	C
ATOM	433	CD2	TYR A	33142.243	-10.444	2.691	1.00	0.00	C
ATOM	434	CE1	TYR A	33140.848	-8.576	1.217	1.00	0.00	C
ATOM	435	CE2	TYR A	33141.145	-10.833	1.947	1.00	0.00	C
ATOM	436	CZ	TYR A	33140.452	-9.896	1.212	1.00	0.00	C
ATOM	437	OH	TYR A	33139.358	-10.279	0.469	1.00	0.00	O
ATOM	438	H	TYR A	33146.531	-9.200	2.442	1.00	0.00	H
ATOM	439	HA	TYR A	33144.373	-7.267	2.020	1.00	0.00	H
ATOM	440	1HB	TYR A	33144.335	-9.592	3.908	1.00	0.00	H
ATOM	441	2HB	TYR A	33143.512	-8.102	4.355	1.00	0.00	H
ATOM	442	HD1	TYR A	33142.261	-7.160	1.968	1.00	0.00	H
ATOM	443	HD2	TYR A	33142.788	-11.177	3.268	1.00	0.00	H
ATOM	444	HE1	TYR A	33140.306	-7.840	0.641	1.00	0.00	H
ATOM	445	HE2	TYR A	33140.835	-11.869	1.943	1.00	0.00	H
ATOM	446	HH	TYR A	33139.593	-11.028	-0.083	1.00	0.00	H
ATOM	447	N	GLY A	34145.660	-5.697	3.422	1.00	0.00	N
ATOM	448	CA	GLY A	34146.389	-4.761	4.257	1.00	0.00	C
ATOM	449	C	GLY A	34145.568	-3.537	4.613	1.00	0.00	C
ATOM	450	O	GLY A	34144.380	-3.465	4.294	1.00	0.00	O
ATOM	451	H	GLY A	34145.133	-5.368	2.664	1.00	0.00	H
ATOM	452	1HA	GLY A	34146.683	-5.260	5.168	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.278	-4.443	3.731	1.00	0.00	H
ATOM	454	N	VAL A	35146.200	-2.573	5.275	1.00	0.00	N
ATOM	455	CA	VAL A	35145.520	-1.348	5.674	1.00	0.00	C
ATOM	456	C	VAL A	35146.266	-0.117	5.168	1.00	0.00	C
ATOM	457	O	VAL A	35147.494	-0.110	5.093	1.00	0.00	O
ATOM	458	CB	VAL A	35145.376	-1.261	7.207	1.00	0.00	C

ATOM	459	CG1	VAL A	35146.742	-1.264	7.877	1.00	0.00	C
ATOM	460	CG2	VAL A	35144.581	-0.024	7.601	1.00	0.00	C
ATOM	461	H	VAL A	35147.147	-2.690	5.499	1.00	0.00	H
ATOM	462	HA	VAL A	35144.531	-1.360	5.241	1.00	0.00	H
ATOM	463	HB	VAL A	35144.834	-2.131	7.546	1.00	0.00	H
ATOM	464	1HG1	VAL A	35146.735	-0.577	8.711	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.493	-0.959	7.165	1.00	0.00	H
ATOM	466	3HG1	VAL A	35146.965	-2.258	8.232	1.00	0.00	H
ATOM	467	1HG2	VAL A	35144.998	0.843	7.113	1.00	0.00	H
ATOM	468	2HG2	VAL A	35144.629	0.108	8.672	1.00	0.00	H
ATOM	469	3HG2	VAL A	35143.551	-0.146	7.300	1.00	0.00	H
ATOM	470	N	ILE A	36145.515	0.923	4.822	1.00	0.00	N
ATOM	471	CA	ILE A	36146.105	2.160	4.324	1.00	0.00	C
ATOM	472	C	ILE A	36147.035	2.779	5.362	1.00	0.00	C
ATOM	473	O	ILE A	36146.862	2.574	6.564	1.00	0.00	O
ATOM	474	CB	ILE A	36145.023	3.188	3.939	1.00	0.00	C
ATOM	475	CG1	ILE A	36144.010	2.562	2.977	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.660	4.422	3.315	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.915	3.515	2.548	1.00	0.00	C
ATOM	478	H	ILE A	36144.540	0.859	4.905	1.00	0.00	H
ATOM	479	HA	ILE A	36146.678	1.923	3.439	1.00	0.00	H
ATOM	480	HB	ILE A	36144.512	3.494	4.840	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.525	2.229	2.089	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.544	1.715	3.457	1.00	0.00	H
ATOM	483	1HG2	ILE A	36146.128	5.015	4.087	1.00	0.00	H
ATOM	484	2HG2	ILE A	36144.900	5.009	2.822	1.00	0.00	H
ATOM	485	3HG2	ILE A	36146.404	4.117	2.593	1.00	0.00	H
ATOM	486	1HD1	ILE A	36142.149	3.548	3.308	1.00	0.00	H
ATOM	487	2HD1	ILE A	36142.486	3.173	1.617	1.00	0.00	H
ATOM	488	3HD1	ILE A	36143.330	4.502	2.412	1.00	0.00	H
ATOM	489	N	ARG A	37148.020	3.537	4.891	1.00	0.00	N

ATOM	490	CA	ARG A	37148.977	4.184	5.780	1.00	0.00	C
ATOM	491	C	ARG A	37149.216	5.631	5.364	1.00	0.00	C
ATOM	492	O	ARG A	37148.844	6.563	6.078	1.00	0.00	O
ATOM	493	CB	ARG A	37150.300	3.418	5.782	1.00	0.00	C
ATOM	494	CG	ARG A	37150.144	1.935	6.077	1.00	0.00	C
ATOM	495	CD	ARG A	37150.115	1.667	7.572	1.00	0.00	C
ATOM	496	NE	ARG A	37148.908	2.196	8.201	1.00	0.00	N
ATOM	497	CZ	ARG A	37148.788	2.420	9.508	1.00	0.00	C
ATOM	498	NH1	ARG A	37149.800	2.159	10.327	1.00	0.00	N
ATOM	499	NH2	ARG A	37147.654	2.904	9.997	1.00	0.00	N
ATOM	500	H	ARG A	37148.105	3.662	3.924	1.00	0.00	H
ATOM	501	HA	ARG A	37148.563	4.173	6.778	1.00	0.00	H
ATOM	502	1HB	ARG A	37150.766	3.523	4.813	1.00	0.00	H
ATOM	503	2HB	ARG A	37150.950	3.845	6.532	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.220	1.587	5.641	1.00	0.00	H
ATOM	505	2HG	ARG A	37150.976	1.402	5.640	1.00	0.00	H
ATOM	506	1HD	ARG A	37150.154	0.600	7.734	1.00	0.00	H
ATOM	507	2HD	ARG A	37150.979	2.130	8.025	1.00	0.00	H
ATOM	508	HE	ARG A	37148.145	2.397	7.619	1.00	0.00	H
ATOM	509	1HH1	ARG A	37150.657	1.793	9.966	1.00	0.00	H
ATOM	510	2HH1	ARG A	37149.704	2.329	11.308	1.00	0.00	H
ATOM	511	1HH2	ARG A	37146.890	3.103	9.384	1.00	0.00	H
ATOM	512	2HH2	ARG A	37147.565	3.072	10.979	1.00	0.00	H
ATOM	513	N	TRP A	38149.841	5.814	4.206	1.00	0.00	N
ATOM	514	CA	TRP A	38150.132	7.149	3.697	1.00	0.00	C
ATOM	515	C	TRP A	38149.473	7.373	2.337	1.00	0.00	C
ATOM	516	O	TRP A	38149.599	6.550	1.431	1.00	0.00	O
ATOM	517	CB	TRP A	38151.647	7.361	3.589	1.00	0.00	C
ATOM	518	CG	TRP A	38152.027	8.592	2.820	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.264	9.837	3.329	1.00	0.00	C
ATOM	520	CD2	TRP A	38152.208	8.696	1.403	1.00	0.00	C

ATOM	521	NE1	TRP A	38152.581	10.708	2.314	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.554	10.031	1.123	1.00	0.00	C
ATOM	523	CE3	TRP A	38152.112	7.789	0.344	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.803	10.479	-0.172	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.360	8.234	-0.940	1.00	0.00	C
ATOM	526	CH2	TRP A	38152.702	9.569	-1.189	1.00	0.00	C
ATOM	527	H	TRP A	38150.114	5.032	3.682	1.00	0.00	H
ATOM	528	HA	TRP A	38149.728	7.865	4.398	1.00	0.00	H
ATOM	529	1HB	TRP A	38152.062	7.447	4.581	1.00	0.00	H
ATOM	530	2HB	TRP A	38152.086	6.508	3.092	1.00	0.00	H
ATOM	531	HD1	TRP A	38152.207	10.086	4.378	1.00	0.00	H
ATOM	532	HE1	TRP A	38152.794	11.659	2.426	1.00	0.00	H
ATOM	533	HE3	TRP A	38151.849	6.756	0.517	1.00	0.00	H
ATOM	534	HZ2	TRP A	38153.065	11.506	-0.381	1.00	0.00	H
ATOM	535	HZ3	TRP A	38152.290	7.547	-1.770	1.00	0.00	H
ATOM	536	HH2	TRP A	38152.887	9.873	-2.209	1.00	0.00	H
ATOM	537	N	ILE A	39148.781	8.499	2.204	1.00	0.00	N
ATOM	538	CA	ILE A	39148.111	8.845	0.957	1.00	0.00	C
ATOM	539	C	ILE A	39148.616	10.185	0.433	1.00	0.00	C
ATOM	540	O	ILE A	39148.281	11.239	0.974	1.00	0.00	O
ATOM	541	CB	ILE A	39146.583	8.917	1.137	1.00	0.00	C
ATOM	542	CG1	ILE A	39146.066	7.647	1.816	1.00	0.00	C
ATOM	543	CG2	ILE A	39145.898	9.121	-0.206	1.00	0.00	C
ATOM	544	CD1	ILE A	39144.781	7.854	2.588	1.00	0.00	C
ATOM	545	H	ILE A	39148.726	9.117	2.963	1.00	0.00	H
ATOM	546	HA	ILE A	39148.335	8.077	0.231	1.00	0.00	H
ATOM	547	HB	ILE A	39146.356	9.767	1.761	1.00	0.00	H
ATOM	548	1HG1	ILE A	39145.881	6.894	1.064	1.00	0.00	H
ATOM	549	2HG1	ILE A	39146.814	7.285	2.506	1.00	0.00	H
ATOM	550	1HG2	ILE A	39146.213	8.348	-0.892	1.00	0.00	H
ATOM	551	2HG2	ILE A	39146.169	10.088	-0.605	1.00	0.00	H

ATOM	552	3HG2	ILE A	39144.827	9.073	-0.076	1.00	0.00	H
ATOM	553	1HD1	ILE A	39144.535	6.952	3.127	1.00	0.00	H
ATOM	554	2HD1	ILE A	39143.983	8.092	1.900	1.00	0.00	H
ATOM	555	3HD1	ILE A	39144.908	8.668	3.286	1.00	0.00	H
ATOM	556	N	GLY A	40149.429	10.140	-0.617	1.00	0.00	N
ATOM	557	CA	GLY A	40149.970	11.360	-1.185	1.00	0.00	C
ATOM	558	C	GLY A	40150.570	11.152	-2.561	1.00	0.00	C
ATOM	559	O	GLY A	40150.382	10.103	-3.177	1.00	0.00	O
ATOM	560	H	GLY A	40149.667	9.272	-1.006	1.00	0.00	H
ATOM	561	1HA	GLY A	40149.179	12.091	-1.257	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.735	11.740	-0.525	1.00	0.00	H
ATOM	563	N	GLN A	41151.290	12.159	-3.044	1.00	0.00	N
ATOM	564	CA	GLN A	41151.919	12.094	-4.355	1.00	0.00	C
ATOM	565	C	GLN A	41153.396	12.478	-4.267	1.00	0.00	C
ATOM	566	O	GLN A	41153.728	13.616	-3.935	1.00	0.00	O
ATOM	567	CB	GLN A	41151.195	13.024	-5.325	1.00	0.00	C
ATOM	568	CG	GLN A	41149.683	12.862	-5.309	1.00	0.00	C
ATOM	569	CD	GLN A	41148.955	14.188	-5.405	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.905	14.953	-4.443	1.00	0.00	O
ATOM	571	NE2	GLN A	41148.387	14.464	-6.571	1.00	0.00	N
ATOM	572	H	GLN A	41151.398	12.969	-2.505	1.00	0.00	H
ATOM	573	HA	GLN A	41151.839	11.080	-4.713	1.00	0.00	H
ATOM	574	1HB	GLN A	41151.427	14.046	-5.067	1.00	0.00	H
ATOM	575	2HB	GLN A	41151.546	12.826	-6.325	1.00	0.00	H
ATOM	576	1HG	GLN A	41149.390	12.247	-6.145	1.00	0.00	H
ATOM	577	2HG	GLN A	41149.396	12.376	-4.388	1.00	0.00	H
ATOM	578	1HE2	GLN A	41148.468	13.805	-7.292	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.910	15.314	-6.665	1.00	0.00	H
ATOM	580	N	PRO A	42154.309	11.532	-4.559	1.00	0.00	N
ATOM	581	CA	PRO A	42155.752	11.787	-4.505	1.00	0.00	C
ATOM	582	C	PRO A	42156.172	12.938	-5.414	1.00	0.00	C

ATOM	583	O	PRO A	42155.454	13.294	-6.350	1.00	0.00	O
ATOM	584	CB	PRO A	42156.371	10.471	-4.989	1.00	0.00	C
ATOM	585	CG	PRO A	42155.320	9.444	-4.752	1.00	0.00	C
ATOM	586	CD	PRO A	42154.010	10.147	-4.961	1.00	0.00	C
ATOM	587	HA	PRO A	42156.079	11.991	-3.496	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.616	10.552	-6.039	1.00	0.00	H
ATOM	589	2HB	PRO A	42157.265	10.260	-4.420	1.00	0.00	H
ATOM	590	1HG	PRO A	42155.429	8.634	-5.458	1.00	0.00	H
ATOM	591	2HG	PRO A	42155.389	9.074	-3.739	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.719	10.100	-6.000	1.00	0.00	H
ATOM	593	2HD	PRO A	42153.244	9.717	-4.331	1.00	0.00	H
ATOM	594	N	PRO A	43157.345	13.537	-5.151	1.00	0.00	N
ATOM	595	CA	PRO A	43157.858	14.653	-5.950	1.00	0.00	C
ATOM	596	C	PRO A	43158.331	14.206	-7.328	1.00	0.00	C
ATOM	597	O	PRO A	43159.507	13.894	-7.520	1.00	0.00	O
ATOM	598	CB	PRO A	43159.035	15.169	-5.124	1.00	0.00	C
ATOM	599	CG	PRO A	43159.493	13.989	-4.340	1.00	0.00	C
ATOM	600	CD	PRO A	43158.261	13.173	-4.054	1.00	0.00	C
ATOM	601	HA	PRO A	43157.120	15.433	-6.060	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.809	15.530	-5.785	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.703	15.968	-4.478	1.00	0.00	H
ATOM	604	1HG	PRO A	43160.198	13.412	-4.922	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.948	14.316	-3.417	1.00	0.00	H
ATOM	606	1HD	PRO A	43158.493	12.119	-4.080	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.843	13.445	-3.096	1.00	0.00	H
ATOM	608	N	GLY A	44157.411	14.178	-8.286	1.00	0.00	N
ATOM	609	CA	GLY A	44157.758	13.769	-9.633	1.00	0.00	C
ATOM	610	C	GLY A	44156.560	13.280	-10.418	1.00	0.00	C
ATOM	611	O	GLY A	44156.327	13.716	-11.546	1.00	0.00	O
ATOM	612	H	GLY A	44156.490	14.438	-8.076	1.00	0.00	H
ATOM	613	1HA	GLY A	44158.194	14.610	-10.151	1.00	0.00	H

ATOM	614	2HA	GLY A	44158.488	12.976	-9.579	1.00	0.00	H
ATOM	615	N	LEU A	45155.794	12.370	-9.824	1.00	0.00	N
ATOM	616	CA	LEU A	45154.613	11.822	-10.479	1.00	0.00	C
ATOM	617	C	LEU A	45153.363	12.082	-9.648	1.00	0.00	C
ATOM	618	O	LEU A	45153.203	11.525	-8.562	1.00	0.00	O
ATOM	619	CB	LEU A	45154.783	10.318	-10.708	1.00	0.00	C
ATOM	620	CG	LEU A	45155.251	9.525	-9.486	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.856	8.060	-9.614	1.00	0.00	C
ATOM	622	CD2	LEU A	45156.757	9.664	-9.304	1.00	0.00	C
ATOM	623	H	LEU A	45156.030	12.060	-8.922	1.00	0.00	H
ATOM	624	HA	LEU A	45154.505	12.313	-11.435	1.00	0.00	H
ATOM	625	1HB	LEU A	45153.834	9.915	-11.032	1.00	0.00	H
ATOM	626	2HB	LEU A	45155.504	10.175	-11.499	1.00	0.00	H
ATOM	627	HG	LEU A	45154.770	9.923	-8.604	1.00	0.00	H
ATOM	628	1HD1	LEU A	45154.124	7.818	-8.858	1.00	0.00	H
ATOM	629	2HD1	LEU A	45155.729	7.438	-9.480	1.00	0.00	H
ATOM	630	3HD1	LEU A	45154.437	7.883	-10.593	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.974	9.910	-8.275	1.00	0.00	H
ATOM	632	2HD2	LEU A	45157.127	10.451	-9.947	1.00	0.00	H
ATOM	633	3HD2	LEU A	45157.239	8.733	-9.562	1.00	0.00	H
ATOM	634	N	ASN A	46152.477	12.930	-10.162	1.00	0.00	N
ATOM	635	CA	ASN A	46151.245	13.251	-9.454	1.00	0.00	C
ATOM	636	C	ASN A	46150.273	12.078	-9.511	1.00	0.00	C
ATOM	637	O	ASN A	46149.690	11.790	-10.556	1.00	0.00	O
ATOM	638	CB	ASN A	46150.597	14.498	-10.061	1.00	0.00	C
ATOM	639	CG	ASN A	46149.341	14.917	-9.325	1.00	0.00	C
ATOM	640	OD1	ASN A	46149.358	15.856	-8.529	1.00	0.00	O
ATOM	641	ND2	ASN A	46148.241	14.221	-9.587	1.00	0.00	N
ATOM	642	H	ASN A	46152.654	13.344	-11.032	1.00	0.00	H
ATOM	643	HA	ASN A	46151.494	13.450	-8.423	1.00	0.00	H
ATOM	644	1HB	ASN A	46151.301	15.315	-10.025	1.00	0.00	H

ATOM	645	2HB	ASN	A	46150.338	14.296	-11.091	1.00	0.00	H
ATOM	646	1HD2	ASN	A	46148.301	13.486	-10.233	1.00	0.00	H
ATOM	647	2HD2	ASN	A	46147.413	14.471	-9.125	1.00	0.00	H
ATOM	648	N	GLU	A	47150.105	11.406	-8.378	1.00	0.00	N
ATOM	649	CA	GLU	A	47149.205	10.262	-8.289	1.00	0.00	C
ATOM	650	C	GLU	A	47148.956	9.884	-6.833	1.00	0.00	C
ATOM	651	O	GLU	A	47149.896	9.621	-6.083	1.00	0.00	O
ATOM	652	CB	GLU	A	47149.782	9.066	-9.049	1.00	0.00	C
ATOM	653	CG	GLU	A	47151.289	8.916	-8.907	1.00	0.00	C
ATOM	654	CD	GLU	A	47151.881	7.979	-9.941	1.00	0.00	C
ATOM	655	OE1	GLU	A	47152.122	8.429	-11.081	1.00	0.00	O
ATOM	656	OE2	GLU	A	47152.104	6.795	-9.612	1.00	0.00	O
ATOM	657	H	GLU	A	47150.599	11.686	-7.580	1.00	0.00	H
ATOM	658	HA	GLU	A	47148.266	10.545	-8.740	1.00	0.00	H
ATOM	659	1HB	GLU	A	47149.317	8.163	-8.682	1.00	0.00	H
ATOM	660	2HB	GLU	A	47149.550	9.176	-10.099	1.00	0.00	H
ATOM	661	1HG	GLU	A	47151.746	9.887	-9.021	1.00	0.00	H
ATOM	662	2HG	GLU	A	47151.509	8.529	-7.924	1.00	0.00	H
ATOM	663	N	VAL	A	48147.688	9.850	-6.439	1.00	0.00	N
ATOM	664	CA	VAL	A	48147.331	9.494	-5.072	1.00	0.00	C
ATOM	665	C	VAL	A	48147.655	8.030	-4.795	1.00	0.00	C
ATOM	666	O	VAL	A	48146.912	7.133	-5.191	1.00	0.00	O
ATOM	667	CB	VAL	A	48145.835	9.739	-4.796	1.00	0.00	C
ATOM	668	CG1	VAL	A	48145.527	9.554	-3.319	1.00	0.00	C
ATOM	669	CG2	VAL	A	48145.427	11.128	-5.265	1.00	0.00	C
ATOM	670	H	VAL	A	48146.979	10.064	-7.080	1.00	0.00	H
ATOM	671	HA	VAL	A	48147.908	10.113	-4.401	1.00	0.00	H
ATOM	672	HB	VAL	A	48145.263	9.012	-5.353	1.00	0.00	H
ATOM	673	1HG1	VAL	A	48145.685	8.522	-3.044	1.00	0.00	H
ATOM	674	2HG1	VAL	A	48144.498	9.824	-3.129	1.00	0.00	H
ATOM	675	3HG1	VAL	A	48146.178	10.186	-2.733	1.00	0.00	H

ATOM	676	1HG2	VAL A	48145.171	11.092	-6.314	1.00	0.00	H
ATOM	677	2HG2	VAL A	48146.248	11.813	-5.118	1.00	0.00	H
ATOM	678	3HG2	VAL A	48144.572	11.462	-4.697	1.00	0.00	H
ATOM	679	N	LEU A	49148.771	7.795	-4.114	1.00	0.00	N
ATOM	680	CA	LEU A	49149.196	6.439	-3.787	1.00	0.00	C
ATOM	681	C	LEU A	49149.018	6.158	-2.301	1.00	0.00	C
ATOM	682	O	LEU A	49149.659	6.789	-1.460	1.00	0.00	O
ATOM	683	CB	LEU A	49150.657	6.228	-4.185	1.00	0.00	C
ATOM	684	CG	LEU A	49150.989	6.568	-5.640	1.00	0.00	C
ATOM	685	CD1	LEU A	49152.472	6.871	-5.792	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.580	5.427	-6.559	1.00	0.00	C
ATOM	687	H	LEU A	49149.325	8.551	-3.824	1.00	0.00	H
ATOM	688	HA	LEU A	49148.577	5.754	-4.347	1.00	0.00	H
ATOM	689	1HB	LEU A	49151.275	6.841	-3.544	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.909	5.192	-4.016	1.00	0.00	H
ATOM	691	HG	LEU A	49150.437	7.449	-5.931	1.00	0.00	H
ATOM	692	1HD1	LEU A	49152.882	7.153	-4.833	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.604	7.682	-6.492	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.984	5.993	-6.157	1.00	0.00	H
ATOM	695	1HD2	LEU A	49149.667	4.980	-6.195	1.00	0.00	H
ATOM	696	2HD2	LEU A	49151.362	4.682	-6.578	1.00	0.00	H
ATOM	697	3HD2	LEU A	49150.421	5.808	-7.556	1.00	0.00	H
ATOM	698	N	ALAA	50148.145	5.210	-1.983	1.00	0.00	N
ATOM	699	CA	ALAA	50147.887	4.849	-0.596	1.00	0.00	C
ATOM	700	C	ALAA	50148.794	3.707	-0.151	1.00	0.00	C
ATOM	701	O	ALAA	50148.698	2.591	-0.660	1.00	0.00	O
ATOM	702	CB	ALAA	50146.426	4.471	-0.412	1.00	0.00	C
ATOM	703	H	ALAA	50147.665	4.741	-2.698	1.00	0.00	H
ATOM	704	HA	ALAA	50148.091	5.718	0.013	1.00	0.00	H
ATOM	705	1HB	ALAA	50146.071	4.857	0.531	1.00	0.00	H
ATOM	706	2HB	ALAA	50146.329	3.395	-0.421	1.00	0.00	H

ATOM	707	3HB	ALA	A	50145.841	4.890	-1.217	1.00	0.00	H
ATOM	708	N	GLY	A	51149.675	3.995	0.801	1.00	0.00	N
ATOM	709	CA	GLY	A	51150.587	2.981	1.299	1.00	0.00	C
ATOM	710	C	GLY	A	51149.892	1.946	2.160	1.00	0.00	C
ATOM	711	O	GLY	A	51149.589	2.200	3.325	1.00	0.00	O
ATOM	712	H	GLY	A	51149.707	4.902	1.170	1.00	0.00	H
ATOM	713	1HA	GLY	A	51151.047	2.483	0.458	1.00	0.00	H
ATOM	714	2HA	GLY	A	51151.356	3.462	1.885	1.00	0.00	H
ATOM	715	N	LEU	A	52149.638	0.775	1.585	1.00	0.00	N
ATOM	716	CA	LEU	A	52148.973	-0.303	2.309	1.00	0.00	C
ATOM	717	C	LEU	A	52149.989	-1.169	3.048	1.00	0.00	C
ATOM	718	O	LEU	A	52151.096	-1.398	2.561	1.00	0.00	O
ATOM	719	CB	LEU	A	52148.157	-1.166	1.345	1.00	0.00	C
ATOM	720	CG	LEU	A	52146.971	-0.456	0.688	1.00	0.00	C
ATOM	721	CD1	LEU	A	52146.473	-1.249	-0.511	1.00	0.00	C
ATOM	722	CD2	LEU	A	52145.850	-0.249	1.695	1.00	0.00	C
ATOM	723	H	LEU	A	52149.904	0.632	0.653	1.00	0.00	H
ATOM	724	HA	LEU	A	52148.307	0.145	3.030	1.00	0.00	H
ATOM	725	1HB	LEU	A	52148.816	-1.520	0.565	1.00	0.00	H
ATOM	726	2HB	LEU	A	52147.780	-2.018	1.889	1.00	0.00	H
ATOM	727	HG	LEU	A	52147.291	0.514	0.337	1.00	0.00	H
ATOM	728	1HD1	LEU	A	52147.292	-1.809	-0.937	1.00	0.00	H
ATOM	729	2HD1	LEU	A	52146.077	-0.569	-1.252	1.00	0.00	H
ATOM	730	3HD1	LEU	A	52145.696	-1.929	-0.195	1.00	0.00	H
ATOM	731	1HD2	LEU	A	52145.336	-1.185	1.860	1.00	0.00	H
ATOM	732	2HD2	LEU	A	52145.154	0.482	1.314	1.00	0.00	H
ATOM	733	3HD2	LEU	A	52146.266	0.102	2.628	1.00	0.00	H
ATOM	734	N	GLU	A	53149.603	-1.646	4.227	1.00	0.00	N
ATOM	735	CA	GLU	A	53150.479	-2.487	5.035	1.00	0.00	C
ATOM	736	C	GLU	A	53149.945	-3.914	5.110	1.00	0.00	C
ATOM	737	O	GLU	A	53148.905	-4.167	5.719	1.00	0.00	O

ATOM	738	CB	GLU A	53150.619	-1.908	6.444	1.00	0.00	C
ATOM	739	CG	GLU A	53151.548	-2.709	7.342	1.00	0.00	C
ATOM	740	CD	GLU A	53151.003	-2.872	8.747	1.00	0.00	C
ATOM	741	OE1	GLU A	53150.405	-3.929	9.034	1.00	0.00	O
ATOM	742	OE2	GLU A	53151.176	-1.940	9.563	1.00	0.00	O
ATOM	743	H	GLU A	53148.708	-1.428	4.562	1.00	0.00	H
ATOM	744	HA	GLU A	53151.451	-2.503	4.564	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.004	-0.902	6.370	1.00	0.00	H
ATOM	746	2HB	GLU A	53149.644	-1.877	6.907	1.00	0.00	H
ATOM	747	1HG	GLU A	53151.686	-3.690	6.911	1.00	0.00	H
ATOM	748	2HG	GLU A	53152.500	-2.203	7.396	1.00	0.00	H
ATOM	749	N	LEU A	54150.663	-4.842	4.488	1.00	0.00	N
ATOM	750	CA	LEU A	54150.262	-6.244	4.484	1.00	0.00	C
ATOM	751	C	LEU A	54150.392	-6.851	5.878	1.00	0.00	C
ATOM	752	O	LEU A	54151.214	-6.411	6.682	1.00	0.00	O
ATOM	753	CB	LEU A	54151.110	-7.037	3.488	1.00	0.00	C
ATOM	754	CG	LEU A	54151.206	-6.425	2.090	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.397	-6.999	1.338	1.00	0.00	C
ATOM	756	CD2	LEU A	54149.919	-6.664	1.315	1.00	0.00	C
ATOM	757	H	LEU A	54151.483	-4.580	4.020	1.00	0.00	H
ATOM	758	HA	LEU A	54149.227	-6.292	4.180	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.108	-7.127	3.890	1.00	0.00	H
ATOM	760	2HB	LEU A	54150.687	-8.026	3.396	1.00	0.00	H
ATOM	761	HG	LEU A	54151.352	-5.358	2.180	1.00	0.00	H
ATOM	762	1HD1	LEU A	54152.143	-7.976	0.952	1.00	0.00	H
ATOM	763	2HD1	LEU A	54153.239	-7.086	2.009	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.656	-6.345	0.519	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.250	-5.828	1.463	1.00	0.00	H
ATOM	766	2HD2	LEU A	54149.448	-7.569	1.667	1.00	0.00	H
ATOM	767	3HD2	LEU A	54150.145	-6.761	0.263	1.00	0.00	H
ATOM	768	N	GLU A	55149.577	-7.864	6.156	1.00	0.00	N

ATOM	769	CA	GLU A	55149.603	-8.531	7.451	1.00	0.00	C
ATOM	770	C	GLU A	55150.652	-9.638	7.472	1.00	0.00	C
ATOM	771	O	GLU A	55151.247	-9.925	8.511	1.00	0.00	O
ATOM	772	CB	GLU A	55148.225	-9.112	7.777	1.00	0.00	C
ATOM	773	CG	GLU A	55147.239	-8.081	8.300	1.00	0.00	C
ATOM	774	CD	GLU A	55147.170	-8.058	9.815	1.00	0.00	C
ATOM	775	OE1	GLU A	55146.195	-8.603	10.374	1.00	0.00	O
ATOM	776	OE2	GLU A	55148.091	-7.495	10.444	1.00	0.00	O
ATOM	777	H	GLU A	55148.945	-8.169	5.473	1.00	0.00	H
ATOM	778	HA	GLU A	55149.859	-7.795	8.199	1.00	0.00	H
ATOM	779	1HB	GLU A	55147.812	-9.551	6.880	1.00	0.00	H
ATOM	780	2HB	GLU A	55148.339	-9.882	8.525	1.00	0.00	H
ATOM	781	1HG	GLU A	55147.543	-7.103	7.955	1.00	0.00	H
ATOM	782	2HG	GLU A	55146.258	-8.311	7.913	1.00	0.00	H
ATOM	783	N	ASP A	56150.874	-10.258	6.317	1.00	0.00	N
ATOM	784	CA	ASP A	56151.851	-11.333	6.202	1.00	0.00	C
ATOM	785	C	ASP A	56153.173	-10.811	5.649	1.00	0.00	C
ATOM	786	O	ASP A	56153.208	-10.169	4.599	1.00	0.00	O
ATOM	787	CB	ASP A	56151.313	-12.446	5.301	1.00	0.00	C
ATOM	788	CG	ASP A	56150.352	-13.365	6.029	1.00	0.00	C
ATOM	789	OD1	ASP A	56149.236	-13.588	5.512	1.00	0.00	O
ATOM	790	OD2	ASP A	56150.715	-13.864	7.114	1.00	0.00	O
ATOM	791	H	ASP A	56150.368	-9.984	5.523	1.00	0.00	H
ATOM	792	HA	ASP A	56152.022	-11.733	7.190	1.00	0.00	H
ATOM	793	1HB	ASP A	56150.793	-12.004	4.464	1.00	0.00	H
ATOM	794	2HB	ASP A	56152.140	-13.036	4.934	1.00	0.00	H
ATOM	795	N	GLU A	57154.259	-11.088	6.363	1.00	0.00	N
ATOM	796	CA	GLU A	57155.584	-10.645	5.943	1.00	0.00	C
ATOM	797	C	GLU A	57156.033	-11.387	4.689	1.00	0.00	C
ATOM	798	O	GLU A	57156.555	-12.499	4.766	1.00	0.00	O
ATOM	799	CB	GLU A	57156.597	-10.862	7.068	1.00	0.00	C

ATOM	800	CG	GLU A	57156.634	-9.728	8.079	1.00	0.00	C
ATOM	801	CD	GLU A	57157.934	-9.686	8.859	1.00	0.00	C
ATOM	802	OE1	GLU A	57158.886	-9.025	8.391	1.00	0.00	O
ATOM	803	OE2	GLU A	57158.001	-10.312	9.938	1.00	0.00	O
ATOM	804	H	GLU A	57154.167	-11.603	7.192	1.00	0.00	H
ATOM	805	HA	GLU A	57155.525	-9.590	5.722	1.00	0.00	H
ATOM	806	1HB	GLU A	57156.348	-11.774	7.591	1.00	0.00	H
ATOM	807	2HB	GLU A	57157.582	-10.963	6.636	1.00	0.00	H
ATOM	808	1HG	GLU A	57156.517	-8.792	7.557	1.00	0.00	H
ATOM	809	2HG	GLU A	57155.819	-9.856	8.776	1.00	0.00	H
ATOM	810	N	CYS A	58155.825	-10.764	3.533	1.00	0.00	N
ATOM	811	CA	CYS A	58156.210	-11.364	2.261	1.00	0.00	C
ATOM	812	C	CYS A	58157.455	-10.689	1.695	1.00	0.00	C
ATOM	813	O	CYS A	58157.512	-9.465	1.580	1.00	0.00	O
ATOM	814	CB	CYS A	58155.060	-11.263	1.258	1.00	0.00	C
ATOM	815	SG	CYS A	58155.200	-12.400	-0.142	1.00	0.00	S
ATOM	816	H	CYS A	58155.405	-9.879	3.536	1.00	0.00	H
ATOM	817	HA	CYS A	58156.429	-12.406	2.440	1.00	0.00	H
ATOM	818	1HB	CYS A	58154.131	-11.480	1.763	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.023	-10.257	0.864	1.00	0.00	H
ATOM	820	HG	CYS A	58155.346	-13.282	0.206	1.00	0.00	H
ATOM	821	N	ALAA	59158.450	-11.497	1.343	1.00	0.00	N
ATOM	822	CA	ALAA	59159.695	-10.978	0.787	1.00	0.00	C
ATOM	823	C	ALAA	59159.453	-10.283	-0.548	1.00	0.00	C
ATOM	824	O	ALAA	59158.956	-10.893	-1.495	1.00	0.00	O
ATOM	825	CB	ALAA	59160.709	-12.100	0.625	1.00	0.00	C
ATOM	826	H	ALAA	59158.345	-12.464	1.458	1.00	0.00	H
ATOM	827	HA	ALAA	59160.097	-10.259	1.487	1.00	0.00	H
ATOM	828	1HB	ALAA	59161.226	-12.256	1.561	1.00	0.00	H
ATOM	829	2HB	ALAA	59161.421	-11.833	-0.141	1.00	0.00	H
ATOM	830	3HB	ALAA	59160.197	-13.008	0.341	1.00	0.00	H

ATOM	831	N	GLY A	60159.808	-9.005	-0.618	1.00	0.00	N
ATOM	832	CA	GLY A	60159.622	-8.249	-1.842	1.00	0.00	C
ATOM	833	C	GLY A	60159.105	-6.847	-1.587	1.00	0.00	C
ATOM	834	O	GLY A	60159.364	-5.931	-2.367	1.00	0.00	O
ATOM	835	H	GLY A	60160.200	-8.570	0.169	1.00	0.00	H
ATOM	836	1HA	GLY A	60160.568	-8.184	-2.359	1.00	0.00	H
ATOM	837	2HA	GLY A	60158.916	-8.772	-2.471	1.00	0.00	H
ATOM	838	N	CYS A	61158.372	-6.679	-0.491	1.00	0.00	N
ATOM	839	CA	CYS A	61157.818	-5.378	-0.135	1.00	0.00	C
ATOM	840	C	CYS A	61158.817	-4.564	0.680	1.00	0.00	C
ATOM	841	O	CYS A	61159.828	-5.091	1.147	1.00	0.00	O
ATOM	842	CB	CYS A	61156.519	-5.553	0.656	1.00	0.00	C
ATOM	843	SG	CYS A	61155.273	-6.557	-0.185	1.00	0.00	S
ATOM	844	H	CYS A	61158.200	-7.447	0.092	1.00	0.00	H
ATOM	845	HA	CYS A	61157.602	-4.848	-1.050	1.00	0.00	H
ATOM	846	1HB	CYS A	61156.742	-6.029	1.598	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.087	-4.581	0.843	1.00	0.00	H
ATOM	848	HG	CYS A	61154.755	-7.009	0.485	1.00	0.00	H
ATOM	849	N	THR A	62158.529	-3.278	0.848	1.00	0.00	N
ATOM	850	CA	THR A	62159.402	-2.391	1.608	1.00	0.00	C
ATOM	851	C	THR A	62158.917	-2.249	3.047	1.00	0.00	C
ATOM	852	O	THR A	62157.942	-2.885	3.448	1.00	0.00	O
ATOM	853	CB	THR A	62159.471	-1.016	0.942	1.00	0.00	C
ATOM	854	OG1	THR A	62158.253	-0.718	0.283	1.00	0.00	O
ATOM	855	CG2	THR A	62160.584	-0.898	-0.076	1.00	0.00	C
ATOM	856	H	THR A	62157.709	-2.916	0.453	1.00	0.00	H
ATOM	857	HA	THR A	62160.390	-2.827	1.616	1.00	0.00	H
ATOM	858	HB	THR A	62159.637	-0.267	1.703	1.00	0.00	H
ATOM	859	HG1	THR A	62158.243	0.209	0.033	1.00	0.00	H
ATOM	860	1HG2	THR A	62161.538	-0.993	0.421	1.00	0.00	H
ATOM	861	2HG2	THR A	62160.526	0.064	-0.563	1.00	0.00	H

ATOM	862	3HG2	THR	A	62160.483	-1.681	-0.812	1.00	0.00	H
ATOM	863	N	ASP	A	63159.602	-1.412	3.818	1.00	0.00	N
ATOM	864	CA	ASP	A	63159.240	-1.185	5.212	1.00	0.00	C
ATOM	865	C	ASP	A	63158.612	0.192	5.394	1.00	0.00	C
ATOM	866	O	ASP	A	63158.751	0.814	6.448	1.00	0.00	O
ATOM	867	CB	ASP	A	63160.473	-1.319	6.108	1.00	0.00	C
ATOM	868	CG	ASP	A	63161.586	-0.372	5.706	1.00	0.00	C
ATOM	869	OD1	ASP	A	63162.107	-0.513	4.580	1.00	0.00	O
ATOM	870	OD2	ASP	A	63161.935	0.512	6.517	1.00	0.00	O
ATOM	871	H	ASP	A	63160.370	-0.933	3.440	1.00	0.00	H
ATOM	872	HA	ASP	A	63158.518	-1.938	5.493	1.00	0.00	H
ATOM	873	1HB	ASP	A	63160.193	-1.104	7.129	1.00	0.00	H
ATOM	874	2HB	ASP	A	63160.846	-2.331	6.048	1.00	0.00	H
ATOM	875	N	GLY	A	64157.919	0.662	4.363	1.00	0.00	N
ATOM	876	CA	GLY	A	64157.278	1.963	4.429	1.00	0.00	C
ATOM	877	C	GLY	A	64158.053	3.031	3.681	1.00	0.00	C
ATOM	878	O	GLY	A	64158.129	4.177	4.125	1.00	0.00	O
ATOM	879	H	GLY	A	64157.841	0.122	3.548	1.00	0.00	H
ATOM	880	1HA	GLY	A	64156.289	1.887	4.004	1.00	0.00	H
ATOM	881	2HA	GLY	A	64157.192	2.256	5.466	1.00	0.00	H
ATOM	882	N	THR	A	65158.628	2.654	2.544	1.00	0.00	N
ATOM	883	CA	THR	A	65159.401	3.587	1.733	1.00	0.00	C
ATOM	884	C	THR	A	65159.066	3.428	0.253	1.00	0.00	C
ATOM	885	O	THR	A	65159.267	2.360	-0.328	1.00	0.00	O
ATOM	886	CB	THR	A	65160.898	3.371	1.955	1.00	0.00	C
ATOM	887	OG1	THR	A	65161.198	1.990	2.046	1.00	0.00	O
ATOM	888	CG2	THR	A	65161.419	4.037	3.210	1.00	0.00	C
ATOM	889	H	THR	A	65158.532	1.726	2.243	1.00	0.00	H
ATOM	890	HA	THR	A	65159.141	4.589	2.042	1.00	0.00	H
ATOM	891	HB	THR	A	65161.439	3.780	1.113	1.00	0.00	H
ATOM	892	HG1	THR	A	65160.877	1.539	1.261	1.00	0.00	H

ATOM	893	1HG2	THR	A	65161.665	5.067	2.995	1.00	0.00	H
ATOM	894	2HG2	THR	A	65162.303	3.520	3.551	1.00	0.00	H
ATOM	895	3HG2	THR	A	65160.661	4.001	3.978	1.00	0.00	H
ATOM	896	N	PHE	A	66158.556	4.496	-0.352	1.00	0.00	N
ATOM	897	CA	PHE	A	66158.193	4.473	-1.764	1.00	0.00	C
ATOM	898	C	PHE	A	66159.281	5.122	-2.615	1.00	0.00	C
ATOM	899	O	PHE	A	66159.440	6.343	-2.613	1.00	0.00	O
ATOM	900	CB	PHE	A	66156.862	5.195	-1.982	1.00	0.00	C
ATOM	901	CG	PHE	A	66156.296	5.008	-3.360	1.00	0.00	C
ATOM	902	CD1	PHE	A	66155.867	3.760	-3.784	1.00	0.00	C
ATOM	903	CD2	PHE	A	66156.194	6.080	-4.233	1.00	0.00	C
ATOM	904	CE1	PHE	A	66155.346	3.585	-5.052	1.00	0.00	C
ATOM	905	CE2	PHE	A	66155.674	5.910	-5.502	1.00	0.00	C
ATOM	906	CZ	PHE	A	66155.249	4.662	-5.912	1.00	0.00	C
ATOM	907	H	PHE	A	66158.419	5.317	0.164	1.00	0.00	H
ATOM	908	HA	PHE	A	66158.086	3.442	-2.063	1.00	0.00	H
ATOM	909	1HB	PHE	A	66156.138	4.821	-1.272	1.00	0.00	H
ATOM	910	2HB	PHE	A	66157.004	6.254	-1.820	1.00	0.00	H
ATOM	911	HD1	PHE	A	66155.942	2.918	-3.112	1.00	0.00	H
ATOM	912	HD2	PHE	A	66156.525	7.056	-3.913	1.00	0.00	H
ATOM	913	HE1	PHE	A	66155.016	2.608	-5.371	1.00	0.00	H
ATOM	914	HE2	PHE	A	66155.599	6.754	-6.172	1.00	0.00	H
ATOM	915	HZ	PHE	A	66154.843	4.527	-6.904	1.00	0.00	H
ATOM	916	N	ARG	A	67160.027	4.296	-3.341	1.00	0.00	N
ATOM	917	CA	ARG	A	67161.100	4.789	-4.198	1.00	0.00	C
ATOM	918	C	ARG	A	67162.157	5.521	-3.378	1.00	0.00	C
ATOM	919	O	ARG	A	67162.675	6.557	-3.798	1.00	0.00	O
ATOM	920	CB	ARG	A	67160.534	5.719	-5.274	1.00	0.00	C
ATOM	921	CG	ARG	A	67159.459	5.073	-6.133	1.00	0.00	C
ATOM	922	CD	ARG	A	67159.356	5.744	-7.493	1.00	0.00	C
ATOM	923	NE	ARG	A	67159.127	4.777	-8.564	1.00	0.00	N

ATOM	924	CZ	ARG A	67159.155	5.084	-9.859	1.00	0.00	C
ATOM	925	NH1	ARG A	67159.400	6.331	-10.247	1.00	0.00	N
ATOM	926	NH2	ARG A	67158.938	4.145	-10.769	1.00	0.00	N
ATOM	927	H	ARG A	67159.851	3.333	-3.302	1.00	0.00	H
ATOM	928	HA	ARG A	67161.559	3.937	-4.677	1.00	0.00	H
ATOM	929	1HB	ARG A	67160.107	6.587	-4.794	1.00	0.00	H
ATOM	930	2HB	ARG A	67161.340	6.035	-5.920	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.705	4.031	-6.275	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.509	5.156	-5.626	1.00	0.00	H
ATOM	933	1HD	ARG A	67158.534	6.444	-7.473	1.00	0.00	H
ATOM	934	2HD	ARG A	67160.275	6.275	-7.690	1.00	0.00	H
ATOM	935	HE	ARG A	67158.944	3.850	-8.305	1.00	0.00	H
ATOM	936	1HH1	ARG A	67159.565	7.044	-9.566	1.00	0.00	H
ATOM	937	2HH1	ARG A	67159.421	6.555	-11.221	1.00	0.00	H
ATOM	938	1HH2	ARG A	67158.753	3.205	-10.481	1.00	0.00	H
ATOM	939	2HH2	ARG A	67158.958	4.375	-11.741	1.00	0.00	H
ATOM	940	N	GLY A	68162.473	4.977	-2.208	1.00	0.00	N
ATOM	941	CA	GLY A	68163.468	5.592	-1.349	1.00	0.00	C
ATOM	942	C	GLY A	68162.935	6.814	-0.627	1.00	0.00	C
ATOM	943	O	GLY A	68163.691	7.728	-0.297	1.00	0.00	O
ATOM	944	H	GLY A	68162.027	4.152	-1.926	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.792	4.868	-0.617	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.315	5.885	-1.950	1.00	0.00	H
ATOM	947	N	THR A	69161.629	6.830	-0.382	1.00	0.00	N
ATOM	948	CA	THR A	69160.994	7.950	0.305	1.00	0.00	C
ATOM	949	C	THR A	69160.067	7.454	1.411	1.00	0.00	C
ATOM	950	O	THR A	69158.900	7.147	1.164	1.00	0.00	O
ATOM	951	CB	THR A	69160.209	8.807	-0.689	1.00	0.00	C
ATOM	952	OG1	THR A	69160.975	9.048	-1.855	1.00	0.00	O
ATOM	953	CG2	THR A	69159.796	10.148	-0.125	1.00	0.00	C
ATOM	954	H	THR A	69161.078	6.073	-0.669	1.00	0.00	H

ATOM	955	HA	THR A	69161.774	8.551	0.749	1.00	0.00	H
ATOM	956	HB	THR A	69159.312	8.277	-0.974	1.00	0.00	H
ATOM	957	HG1	THR A	69160.699	8.445	-2.550	1.00	0.00	H
ATOM	958	1HG2	THR A	69160.366	10.356	0.768	1.00	0.00	H
ATOM	959	2HG2	THR A	69158.743	10.129	0.117	1.00	0.00	H
ATOM	960	3HG2	THR A	69159.982	10.920	-0.858	1.00	0.00	H
ATOM	961	N	ARG A	70160.593	7.377	2.629	1.00	0.00	N
ATOM	962	CA	ARG A	70159.811	6.918	3.771	1.00	0.00	C
ATOM	963	C	ARG A	70158.618	7.835	4.018	1.00	0.00	C
ATOM	964	O	ARG A	70158.749	9.059	4.005	1.00	0.00	O
ATOM	965	CB	ARG A	70160.689	6.855	5.023	1.00	0.00	C
ATOM	966	CG	ARG A	70159.948	6.370	6.260	1.00	0.00	C
ATOM	967	CD	ARG A	70160.069	7.358	7.410	1.00	0.00	C
ATOM	968	NE	ARG A	70160.228	6.685	8.697	1.00	0.00	N
ATOM	969	CZ	ARG A	70161.380	6.178	9.131	1.00	0.00	C
ATOM	970	NH1	ARG A	70162.475	6.264	8.385	1.00	0.00	N
ATOM	971	NH2	ARG A	70161.437	5.582	10.315	1.00	0.00	N
ATOM	972	H	ARG A	70161.529	7.635	2.762	1.00	0.00	H
ATOM	973	HA	ARG A	70159.448	5.926	3.546	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.513	6.181	4.838	1.00	0.00	H
ATOM	975	2HB	ARG A	70161.079	7.841	5.225	1.00	0.00	H
ATOM	976	1HG	ARG A	70158.904	6.245	6.016	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.363	5.421	6.567	1.00	0.00	H
ATOM	978	1HD	ARG A	70160.928	7.989	7.237	1.00	0.00	H
ATOM	979	2HD	ARG A	70159.177	7.966	7.440	1.00	0.00	H
ATOM	980	HE	ARG A	70159.436	6.606	9.267	1.00	0.00	H
ATOM	981	1HH1	ARG A	70162.438	6.711	7.492	1.00	0.00	H
ATOM	982	2HH1	ARG A	70163.337	5.881	8.717	1.00	0.00	H
ATOM	983	1HH2	ARG A	70160.615	5.515	10.880	1.00	0.00	H
ATOM	984	2HH2	ARG A	70162.303	5.202	10.641	1.00	0.00	H
ATOM	985	N	TYR A	71157.454	7.233	4.243	1.00	0.00	N

ATOM	986	CA	TYR A	71156.236	7.995	4.494	1.00	0.00	C
ATOM	987	C	TYR A	71155.691	7.705	5.889	1.00	0.00	C
ATOM	988	O	TYR A	71155.213	8.606	6.578	1.00	0.00	O
ATOM	989	CB	TYR A	71155.177	7.661	3.442	1.00	0.00	C
ATOM	990	CG	TYR A	71155.365	8.402	2.137	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.369	7.722	0.925	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.540	9.780	2.117	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.542	8.396	-0.270	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.713	10.460	0.926	1.00	0.00	C
ATOM	995	CZ	TYR A	71155.713	9.764	-0.263	1.00	0.00	C
ATOM	996	OH	TYR A	71155.885	10.437	-1.451	1.00	0.00	O
ATOM	997	H	TYR A	71157.415	6.255	4.240	1.00	0.00	H
ATOM	998	HA	TYR A	71156.481	9.044	4.426	1.00	0.00	H
ATOM	999	1HB	TYR A	71155.209	6.604	3.230	1.00	0.00	H
ATOM	1000	2HB	TYR A	71154.202	7.916	3.831	1.00	0.00	H
ATOM	1001	HD1	TYR A	71155.235	6.651	0.924	1.00	0.00	H
ATOM	1002	HD2	TYR A	71155.541	10.323	3.050	1.00	0.00	H
ATOM	1003	HE1	TYR A	71155.541	7.849	-1.202	1.00	0.00	H
ATOM	1004	HE2	TYR A	71155.847	11.532	0.931	1.00	0.00	H
ATOM	1005	HH	TYR A	71155.181	10.199	-2.060	1.00	0.00	H
ATOM	1006	N	PHE A	72155.770	6.445	6.299	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.285	6.036	7.613	1.00	0.00	C
ATOM	1008	C	PHE A	72156.210	4.994	8.234	1.00	0.00	C
ATOM	1009	O	PHE A	72157.229	4.626	7.649	1.00	0.00	O
ATOM	1010	CB	PHE A	72153.866	5.476	7.505	1.00	0.00	C
ATOM	1011	CG	PHE A	72153.694	4.488	6.386	1.00	0.00	C
ATOM	1012	CD1	PHE A	72153.520	4.923	5.082	1.00	0.00	C
ATOM	1013	CD2	PHE A	72153.705	3.126	6.639	1.00	0.00	C
ATOM	1014	CE1	PHE A	72153.360	4.017	4.050	1.00	0.00	C
ATOM	1015	CE2	PHE A	72153.546	2.215	5.612	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.374	2.662	4.316	1.00	0.00	C

ATOM	1017	H	PHE A	72156.163	5.772	5.705	1.00	0.00	H
ATOM	1018	HA	PHE A	72155.270	6.910	8.247	1.00	0.00	H
ATOM	1019	1HB	PHE A	72153.612	4.977	8.429	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.176	6.290	7.341	1.00	0.00	H
ATOM	1021	HD1	PHE A	72153.509	5.983	4.874	1.00	0.00	H
ATOM	1022	HD2	PHE A	72153.839	2.776	7.652	1.00	0.00	H
ATOM	1023	HE1	PHE A	72153.225	4.369	3.039	1.00	0.00	H
ATOM	1024	HE2	PHE A	72153.557	1.156	5.822	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.250	1.952	3.511	1.00	0.00	H
ATOM	1026	N	THR A	73155.849	4.521	9.422	1.00	0.00	N
ATOM	1027	CA	THR A	73156.646	3.521	10.122	1.00	0.00	C
ATOM	1028	C	THR A	73155.862	2.224	10.297	1.00	0.00	C
ATOM	1029	O	THR A	73154.872	2.180	11.028	1.00	0.00	O
ATOM	1030	CB	THR A	73157.085	4.053	11.487	1.00	0.00	C
ATOM	1031	OG1	THR A	73157.756	3.047	12.225	1.00	0.00	O
ATOM	1032	CG2	THR A	73155.934	4.552	12.333	1.00	0.00	C
ATOM	1033	H	THR A	73155.026	4.853	9.839	1.00	0.00	H
ATOM	1034	HA	THR A	73157.523	3.320	9.526	1.00	0.00	H
ATOM	1035	HB	THR A	73157.767	4.877	11.339	1.00	0.00	H
ATOM	1036	HG1	THR A	73158.668	3.311	12.370	1.00	0.00	H
ATOM	1037	1HG2	THR A	73156.046	5.613	12.504	1.00	0.00	H
ATOM	1038	2HG2	THR A	73155.932	4.033	13.281	1.00	0.00	H
ATOM	1039	3HG2	THR A	73155.002	4.368	11.819	1.00	0.00	H
ATOM	1040	N	CYS A	74156.311	1.172	9.622	1.00	0.00	N
ATOM	1041	CA	CYS A	74155.651	-0.126	9.704	1.00	0.00	C
ATOM	1042	C	CYS A	74156.672	-1.259	9.654	1.00	0.00	C
ATOM	1043	O	CYS A	74157.867	-1.025	9.475	1.00	0.00	O
ATOM	1044	CB	CYS A	74154.644	-0.282	8.562	1.00	0.00	C
ATOM	1045	SG	CYS A	74152.993	0.348	8.944	1.00	0.00	S
ATOM	1046	H	CYS A	74157.105	1.270	9.056	1.00	0.00	H
ATOM	1047	HA	CYS A	74155.125	-0.172	10.644	1.00	0.00	H

ATOM	1048	1HB	CYS A	74155.007	0.252	7.697	1.00	0.00	H
ATOM	1049	2HB	CYS A	74154.548	-1.330	8.318	1.00	0.00	H
ATOM	1050	HG	CYS A	74153.037	0.799	9.791	1.00	0.00	H
ATOM	1051	N	ALAA	75156.192	-2.488	9.816	1.00	0.00	N
ATOM	1052	CA	ALAA	75157.063	-3.657	9.791	1.00	0.00	C
ATOM	1053	C	ALAA	75157.708	-3.832	8.420	1.00	0.00	C
ATOM	1054	O	ALAA	75157.169	-3.385	7.408	1.00	0.00	O
ATOM	1055	CB	ALAA	75156.281	-4.906	10.171	1.00	0.00	C
ATOM	1056	H	ALAA	75155.231	-2.611	9.956	1.00	0.00	H
ATOM	1057	HA	ALAA	75157.840	-3.510	10.527	1.00	0.00	H
ATOM	1058	1HB	ALAA	75155.259	-4.806	9.836	1.00	0.00	H
ATOM	1059	2HB	ALAA	75156.298	-5.028	11.244	1.00	0.00	H
ATOM	1060	3HB	ALAA	75156.730	-5.769	9.703	1.00	0.00	H
ATOM	1061	N	LEU A	76158.864	-4.486	8.395	1.00	0.00	N
ATOM	1062	CA	LEU A	76159.583	-4.720	7.148	1.00	0.00	C
ATOM	1063	C	LEU A	76158.884	-5.784	6.309	1.00	0.00	C
ATOM	1064	O	LEU A	76158.277	-6.711	6.844	1.00	0.00	O
ATOM	1065	CB	LEU A	76161.023	-5.147	7.437	1.00	0.00	C
ATOM	1066	CG	LEU A	76161.915	-4.055	8.031	1.00	0.00	C
ATOM	1067	CD1	LEU A	76161.985	-4.187	9.545	1.00	0.00	C
ATOM	1068	CD2	LEU A	76163.309	-4.116	7.425	1.00	0.00	C
ATOM	1069	H	LEU A	76159.244	-4.819	9.235	1.00	0.00	H
ATOM	1070	HA	LEU A	76159.597	-3.794	6.595	1.00	0.00	H
ATOM	1071	1HB	LEU A	76160.998	-5.979	8.127	1.00	0.00	H
ATOM	1072	2HB	LEU A	76161.469	-5.483	6.513	1.00	0.00	H
ATOM	1073	HG	LEU A	76161.491	-3.088	7.800	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76161.129	-4.740	9.897	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76161.987	-3.203	9.991	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76162.890	-4.708	9.819	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76163.238	-4.403	6.386	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76163.903	-4.844	7.959	1.00	0.00	H

ATOM 1079 3HD2 LEU A 76163.778 -3.146 7.499 1.00 0.00 H
 ATOM 1080 N LYS A 77158.974 -5.644 4.990 1.00 0.00 N
 ATOM 1081 CA LYS A 77158.350 -6.593 4.075 1.00 0.00 C
 ATOM 1082 C LYS A 77156.836 -6.610 4.257 1.00 0.00 C
 ATOM 1083 O LYS A 77156.193 -7.648 4.097 1.00 0.00 O
 ATOM 1084 CB LYS A 77158.918 -7.997 4.297 1.00 0.00 C
 ATOM 1085 CG LYS A 77160.436 -8.038 4.345 1.00 0.00 C
 ATOM 1086 CD LYS A 77161.044 -7.809 2.971 1.00 0.00 C
 ATOM 1087 CE LYS A 77162.497 -7.372 3.069 1.00 0.00 C
 ATOM 1088 NZ LYS A 77163.335 -7.988 2.004 1.00 0.00 N
 ATOM 1089 H LYS A 77159.473 -4.884 4.623 1.00 0.00 H
 ATOM 1090 HA LYS A 77158.575 -6.278 3.067 1.00 0.00 H
 ATOM 1091 1HB LYS A 77158.538 -8.382 5.231 1.00 0.00 H
 ATOM 1092 2HB LYS A 77158.587 -8.637 3.492 1.00 0.00 H
 ATOM 1093 1HG LYS A 77160.787 -7.268 5.015 1.00 0.00 H
 ATOM 1094 2HG LYS A 77160.749 -9.005 4.710 1.00 0.00 H
 ATOM 1095 1HD LYS A 77160.993 -8.729 2.407 1.00 0.00 H
 ATOM 1096 2HD LYS A 77160.480 -7.041 2.462 1.00 0.00 H
 ATOM 1097 1HE LYS A 77162.544 -6.298 2.975 1.00 0.00 H
 ATOM 1098 2HE LYS A 77162.883 -7.667 4.034 1.00 0.00 H
 ATOM 1099 1HZ LYS A 77164.058 -7.312 1.683 1.00 0.00 H
 ATOM 1100 2HZ LYS A 77162.743 -8.255 1.192 1.00 0.00 H
 ATOM 1101 3HZ LYS A 77163.809 -8.840 2.368 1.00 0.00 H
 ATOM 1102 N LYS A 78156.273 -5.453 4.593 1.00 0.00 N
 ATOM 1103 CA LYS A 78154.833 -5.336 4.796 1.00 0.00 C
 ATOM 1104 C LYS A 78154.337 -3.953 4.387 1.00 0.00 C
 ATOM 1105 O LYS A 78153.462 -3.379 5.035 1.00 0.00 O
 ATOM 1106 CB LYS A 78154.482 -5.606 6.260 1.00 0.00 C
 ATOM 1107 CG LYS A 78154.975 -6.951 6.768 1.00 0.00 C
 ATOM 1108 CD LYS A 78154.548 -7.196 8.206 1.00 0.00 C
 ATOM 1109 CE LYS A 78153.329 -8.101 8.279 1.00 0.00 C

ATOM 1110 NZ LYS A 78152.528 -7.854 9.510 1.00 0.00 N
 ATOM 1111 H LYS A 78156.838 -4.661 4.705 1.00 0.00 H
 ATOM 1112 HA LYS A 78154.350 -6.076 4.177 1.00 0.00 H
 ATOM 1113 1HB LYS A 78154.920 -4.831 6.873 1.00 0.00 H
 ATOM 1114 2HB LYS A 78153.408 -5.575 6.372 1.00 0.00 H
 ATOM 1115 1HG LYS A 78154.567 -7.732 6.143 1.00 0.00 H
 ATOM 1116 2HG LYS A 78156.054 -6.971 6.712 1.00 0.00 H
 ATOM 1117 1HD LYS A 78155.363 -7.662 8.738 1.00 0.00 H
 ATOM 1118 2HD LYS A 78154.310 -6.247 8.667 1.00 0.00 H
 ATOM 1119 1HE LYS A 78152.709 -7.919 7.414 1.00 0.00 H
 ATOM 1120 2HE LYS A 78153.660 -9.129 8.274 1.00 0.00 H
 ATOM 1121 1HZ LYS A 78151.535 -8.120 9.347 1.00 0.00 H
 ATOM 1122 2HZ LYS A 78152.568 -6.849 9.768 1.00 0.00 H
 ATOM 1123 3HZ LYS A 78152.903 -8.419 10.299 1.00 0.00 H
 ATOM 1124 N ALA A 79154.903 -3.423 3.306 1.00 0.00 N
 ATOM 1125 CA ALA A 79154.517 -2.107 2.811 1.00 0.00 C
 ATOM 1126 C ALA A 79154.453 -2.093 1.287 1.00 0.00 C
 ATOM 1127 O ALA A 79155.479 -1.991 0.614 1.00 0.00 O
 ATOM 1128 CB ALA A 79155.491 -1.050 3.310 1.00 0.00 C
 ATOM 1129 H ALA A 79155.595 -3.929 2.832 1.00 0.00 H
 ATOM 1130 HA ALA A 79153.538 -1.876 3.204 1.00 0.00 H
 ATOM 1131 1HB ALA A 79154.952 -0.139 3.526 1.00 0.00 H
 ATOM 1132 2HB ALA A 79156.234 -0.858 2.551 1.00 0.00 H
 ATOM 1133 3HB ALA A 79155.976 -1.402 4.208 1.00 0.00 H
 ATOM 1134 N LEU A 80153.242 -2.196 0.749 1.00 0.00 N
 ATOM 1135 CA LEU A 80153.045 -2.195 -0.696 1.00 0.00 C
 ATOM 1136 C LEU A 80152.259 -0.964 -1.137 1.00 0.00 C
 ATOM 1137 O LEU A 80151.060 -0.857 -0.880 1.00 0.00 O
 ATOM 1138 CB LEU A 80152.312 -3.465 -1.132 1.00 0.00 C
 ATOM 1139 CG LEU A 80152.003 -3.553 -2.627 1.00 0.00 C
 ATOM 1140 CD1 LEU A 80153.212 -4.072 -3.391 1.00 0.00 C

ATOM	1141	CD2	LEU A	80150.795	-4.445	-2.870	1.00	0.00	C
ATOM	1142	H	LEU A	80152.462	-2.275	1.338	1.00	0.00	H
ATOM	1143	HA	LEU A	80154.018	-2.173	-1.164	1.00	0.00	H
ATOM	1144	1HB	LEU A	80152.919	-4.317	-0.859	1.00	0.00	H
ATOM	1145	2HB	LEU A	80151.379	-3.521	-0.592	1.00	0.00	H
ATOM	1146	HG	LEU A	80151.773	-2.566	-3.000	1.00	0.00	H
ATOM	1147	1HD1	LEU A	80154.113	-3.837	-2.843	1.00	0.00	H
ATOM	1148	2HD1	LEU A	80153.251	-3.604	-4.364	1.00	0.00	H
ATOM	1149	3HD1	LEU A	80153.131	-5.142	-3.509	1.00	0.00	H
ATOM	1150	1HD2	LEU A	80149.892	-3.857	-2.792	1.00	0.00	H
ATOM	1151	2HD2	LEU A	80150.775	-5.234	-2.131	1.00	0.00	H
ATOM	1152	3HD2	LEU A	80150.858	-4.877	-3.857	1.00	0.00	H
ATOM	1153	N	PHE A	81152.943	-0.039	-1.802	1.00	0.00	N
ATOM	1154	CA	PHE A	81152.309	1.184	-2.279	1.00	0.00	C
ATOM	1155	C	PHE A	81151.493	0.917	-3.540	1.00	0.00	C
ATOM	1156	O	PHE A	81151.877	0.102	-4.379	1.00	0.00	O
ATOM	1157	CB	PHE A	81153.364	2.255	-2.559	1.00	0.00	C
ATOM	1158	CG	PHE A	81154.090	2.718	-1.328	1.00	0.00	C
ATOM	1159	CD1	PHE A	81155.218	2.048	-0.880	1.00	0.00	C
ATOM	1160	CD2	PHE A	81153.645	3.822	-0.619	1.00	0.00	C
ATOM	1161	CE1	PHE A	81155.888	2.471	0.252	1.00	0.00	C
ATOM	1162	CE2	PHE A	81154.311	4.250	0.515	1.00	0.00	C
ATOM	1163	CZ	PHE A	81155.435	3.573	0.950	1.00	0.00	C
ATOM	1164	H	PHE A	81153.896	-0.182	-1.977	1.00	0.00	H
ATOM	1165	HA	PHE A	81151.646	1.538	-1.505	1.00	0.00	H
ATOM	1166	1HB	PHE A	81154.096	1.859	-3.247	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.885	3.115	-3.006	1.00	0.00	H
ATOM	1168	HD1	PHE A	81155.574	1.187	-1.426	1.00	0.00	H
ATOM	1169	HD2	PHE A	81152.767	4.351	-0.958	1.00	0.00	H
ATOM	1170	HE1	PHE A	81156.766	1.940	0.591	1.00	0.00	H
ATOM	1171	HE2	PHE A	81153.954	5.111	1.059	1.00	0.00	H

ATOM 1172 HZ PHE A 81155.957 3.906 1.835 1.00 0.00 H
 ATOM 1173 N VAL A 82150.364 1.608 -3.667 1.00 0.00 N
 ATOM 1174 CA VAL A 82149.494 1.444 -4.825 1.00 0.00 C
 ATOM 1175 C VAL A 82148.612 2.671 -5.027 1.00 0.00 C
 ATOM 1176 O VAL A 82148.497 3.519 -4.142 1.00 0.00 O
 ATOM 1177 CB VAL A 82148.598 0.200 -4.684 1.00 0.00 C
 ATOM 1178 CG1 VAL A 82149.428 -1.071 -4.779 1.00 0.00 C
 ATOM 1179 CG2 VAL A 82147.827 0.243 -3.373 1.00 0.00 C
 ATOM 1180 H VAL A 82150.111 2.242 -2.965 1.00 0.00 H
 ATOM 1181 HA VAL A 82150.120 1.314 -5.697 1.00 0.00 H
 ATOM 1182 HB VAL A 82147.885 0.200 -5.496 1.00 0.00 H
 ATOM 1183 1HG1 VAL A 82150.036 -1.038 -5.671 1.00 0.00 H
 ATOM 1184 2HG1 VAL A 82148.771 -1.927 -4.824 1.00 0.00 H
 ATOM 1185 3HG1 VAL A 82150.066 -1.150 -3.912 1.00 0.00 H
 ATOM 1186 1HG2 VAL A 82148.388 0.808 -2.643 1.00 0.00 H
 ATOM 1187 2HG2 VAL A 82147.675 -0.762 -3.011 1.00 0.00 H
 ATOM 1188 3HG2 VAL A 82146.869 0.716 -3.534 1.00 0.00 H
 ATOM 1189 N LYS A 83147.991 2.760 -6.199 1.00 0.00 N
 ATOM 1190 CA LYS A 83147.118 3.884 -6.518 1.00 0.00 C
 ATOM 1191 C LYS A 83145.833 3.826 -5.700 1.00 0.00 C
 ATOM 1192 O LYS A 83145.108 2.831 -5.732 1.00 0.00 O
 ATOM 1193 CB LYS A 83146.786 3.890 -8.012 1.00 0.00 C
 ATOM 1194 CG LYS A 83148.004 4.058 -8.904 1.00 0.00 C
 ATOM 1195 CD LYS A 83147.623 4.036 -10.376 1.00 0.00 C
 ATOM 1196 CE LYS A 83148.408 5.068 -11.171 1.00 0.00 C
 ATOM 1197 NZ LYS A 83148.692 4.605 -12.557 1.00 0.00 N
 ATOM 1198 H LYS A 83148.122 2.052 -6.864 1.00 0.00 H
 ATOM 1199 HA LYS A 83147.645 4.793 -6.272 1.00 0.00 H
 ATOM 1200 1HB LYS A 83146.305 2.957 -8.265 1.00 0.00 H
 ATOM 1201 2HB LYS A 83146.104 4.703 -8.214 1.00 0.00 H
 ATOM 1202 1HG LYS A 83148.476 5.002 -8.680 1.00 0.00 H

ATOM	1203	2HG	LYS A	83148.695	3.251	-8.709	1.00	0.00	H
ATOM	1204	1HD	LYS A	83147.829	3.055	-10.778	1.00	0.00	H
ATOM	1205	2HD	LYS A	83146.568	4.250	-10.469	1.00	0.00	H
ATOM	1206	1HE	LYS A	83147.833	5.980	-11.217	1.00	0.00	H
ATOM	1207	2HE	LYS A	83149.343	5.258	-10.664	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83147.835	4.193	-12.979	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83149.440	3.882	-12.546	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83149.006	5.404	-13.143	1.00	0.00	H
ATOM	1211	N	LEU A	84145.559	4.900	-4.967	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.362	4.977	-4.138	1.00	0.00	C
ATOM	1213	C	LEU A	84143.103	4.813	-4.985	1.00	0.00	C
ATOM	1214	O	LEU A	84142.124	4.210	-4.547	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.324	6.314	-3.395	1.00	0.00	C
ATOM	1216	CG	LEU A	84143.055	6.569	-2.580	1.00	0.00	C
ATOM	1217	CD1	LEU A	84143.085	5.777	-1.283	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.896	8.055	-2.295	1.00	0.00	C
ATOM	1219	H	LEU A	84146.177	5.660	-4.986	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.405	4.175	-3.419	1.00	0.00	H
ATOM	1221	1HB	LEU A	84145.170	6.352	-2.725	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.426	7.107	-4.120	1.00	0.00	H
ATOM	1223	HG	LEU A	84142.197	6.243	-3.150	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84142.799	4.753	-1.479	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84142.394	6.214	-0.577	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84144.083	5.798	-0.870	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84143.784	8.425	-1.805	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84142.040	8.209	-1.654	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84142.750	8.586	-3.224	1.00	0.00	H
ATOM	1230	N	LYS A	85143.138	5.352	-6.199	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.999	5.264	-7.106	1.00	0.00	C
ATOM	1232	C	LYS A	85141.717	3.814	-7.488	1.00	0.00	C
ATOM	1233	O	LYS A	85140.589	3.461	-7.832	1.00	0.00	O

ATOM	1234	CB	LYS A	85142.259	6.093	-8.365	1.00	0.00	C
ATOM	1235	CG	LYS A	85143.453	5.615	-9.173	1.00	0.00	C
ATOM	1236	CD	LYS A	85143.781	6.575	-10.306	1.00	0.00	C
ATOM	1237	CE	LYS A	85144.955	7.474	-9.953	1.00	0.00	C
ATOM	1238	NZ	LYS A	85144.679	8.301	-8.746	1.00	0.00	N
ATOM	1239	H	LYS A	85143.948	5.819	-6.491	1.00	0.00	H
ATOM	1240	HA	LYS A	85141.137	5.662	-6.595	1.00	0.00	H
ATOM	1241	1HB	LYS A	85141.384	6.050	-8.997	1.00	0.00	H
ATOM	1242	2HB	LYS A	85142.433	7.118	-8.077	1.00	0.00	H
ATOM	1243	1HG	LYS A	85144.310	5.538	-8.521	1.00	0.00	H
ATOM	1244	2HG	LYS A	85143.229	4.643	-9.590	1.00	0.00	H
ATOM	1245	1HD	LYS A	85144.031	6.004	-11.188	1.00	0.00	H
ATOM	1246	2HD	LYS A	85142.914	7.189	-10.506	1.00	0.00	H
ATOM	1247	1HE	LYS A	85145.821	6.858	-9.766	1.00	0.00	H
ATOM	1248	2HE	LYS A	85145.154	8.129	-10.789	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85145.546	8.784	-8.437	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85144.337	7.698	-7.970	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85143.953	9.015	-8.959	1.00	0.00	H
ATOM	1252	N	SER A	86142.750	2.976	-7.427	1.00	0.00	N
ATOM	1253	CA	SER A	86142.608	1.565	-7.767	1.00	0.00	C
ATOM	1254	C	SER A	86142.494	0.710	-6.509	1.00	0.00	C
ATOM	1255	O	SER A	86142.923	-0.444	-6.490	1.00	0.00	O
ATOM	1256	CB	SER A	86143.800	1.100	-8.607	1.00	0.00	C
ATOM	1257	OG	SER A	86143.657	1.500	-9.959	1.00	0.00	O
ATOM	1258	H	SER A	86143.625	3.314	-7.147	1.00	0.00	H
ATOM	1259	HA	SER A	86141.704	1.453	-8.347	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.707	1.531	-8.211	1.00	0.00	H
ATOM	1261	2HB	SER A	86143.866	0.023	-8.568	1.00	0.00	H
ATOM	1262	HG	SER A	86143.468	2.440	-9.997	1.00	0.00	H
ATOM	1263	N	CYS A	87141.913	1.284	-5.460	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.742	0.575	-4.198	1.00	0.00	C

ATOM 1265 C CYS A 87140.267 0.304 -3.923 1.00 0.00 C
 ATOM 1266 O CYS A 87139.397 1.064 -4.346 1.00 0.00 O
 ATOM 1267 CB CYS A 87142.347 1.382 -3.048 1.00 0.00 C
 ATOM 1268 SG CYS A 87144.153 1.474 -3.081 1.00 0.00 S
 ATOM 1269 H CYS A 87141.592 2.207 -5.537 1.00 0.00 H
 ATOM 1270 HA CYS A 87142.262 -0.369 -4.274 1.00 0.00 H
 ATOM 1271 1HB CYS A 87141.968 2.393 -3.089 1.00 0.00 H
 ATOM 1272 2HB CYS A 87142.057 0.933 -2.110 1.00 0.00 H
 ATOM 1273 HG CYS A 87144.471 1.371 -2.181 1.00 0.00 H
 ATOM 1274 N ARG A 88139.992 -0.786 -3.212 1.00 0.00 N
 ATOM 1275 CA ARG A 88138.620 -1.156 -2.882 1.00 0.00 C
 ATOM 1276 C ARG A 88138.440 -1.289 -1.372 1.00 0.00 C
 ATOM 1277 O ARG A 88139.327 -1.781 -0.674 1.00 0.00 O
 ATOM 1278 CB ARG A 88138.247 -2.472 -3.569 1.00 0.00 C
 ATOM 1279 CG ARG A 88137.641 -2.286 -4.950 1.00 0.00 C
 ATOM 1280 CD ARG A 88136.123 -2.374 -4.909 1.00 0.00 C
 ATOM 1281 NE ARG A 88135.530 -2.222 -6.236 1.00 0.00 N
 ATOM 1282 CZ ARG A 88135.476 -1.068 -6.897 1.00 0.00 C
 ATOM 1283 NH1 ARG A 88135.977 0.037 -6.359 1.00 0.00 N
 ATOM 1284 NH2 ARG A 88134.919 -1.019 -8.099 1.00 0.00 N
 ATOM 1285 H ARG A 88140.729 -1.354 -2.903 1.00 0.00 H
 ATOM 1286 HA ARG A 88137.971 -0.374 -3.246 1.00 0.00 H
 ATOM 1287 1HB ARG A 88139.136 -3.077 -3.669 1.00 0.00 H
 ATOM 1288 2HB ARG A 88137.533 -2.997 -2.953 1.00 0.00 H
 ATOM 1289 1HG ARG A 88137.924 -1.316 -5.330 1.00 0.00 H
 ATOM 1290 2HG ARG A 88138.019 -3.056 -5.606 1.00 0.00 H
 ATOM 1291 1HD ARG A 88135.842 -3.335 -4.507 1.00 0.00 H
 ATOM 1292 2HD ARG A 88135.749 -1.591 -4.265 1.00 0.00 H
 ATOM 1293 HE ARG A 88135.152 -3.023 -6.656 1.00 0.00 H
 ATOM 1294 1HH1 ARG A 88136.399 0.007 -5.453 1.00 0.00 H
 ATOM 1295 2HH1 ARG A 88135.934 0.901 -6.861 1.00 0.00 H

ATOM 1296 1HH2 ARG A 88134.539 -1.848 -8.509 1.00 0.00 H
 ATOM 1297 2HH2 ARG A 88134.878 -0.152 -8.596 1.00 0.00 H
 ATOM 1298 N PRO A 89137.282 -0.854 -0.841 1.00 0.00 N
 ATOM 1299 CA PRO A 89136.995 -0.931 0.595 1.00 0.00 C
 ATOM 1300 C PRO A 89137.153 -2.347 1.140 1.00 0.00 C
 ATOM 1301 O PRO A 89136.565 -3.293 0.616 1.00 0.00 O
 ATOM 1302 CB PRO A 89135.534 -0.482 0.696 1.00 0.00 C
 ATOM 1303 CG PRO A 89135.303 0.344 -0.521 1.00 0.00 C
 ATOM 1304 CD PRO A 89136.166 -0.254 -1.596 1.00 0.00 C
 ATOM 1305 HA PRO A 89137.622 -0.257 1.160 1.00 0.00 H
 ATOM 1306 1HB PRO A 89134.889 -1.349 0.715 1.00 0.00 H
 ATOM 1307 2HB PRO A 89135.394 0.097 1.597 1.00 0.00 H
 ATOM 1308 1HG PRO A 89134.262 0.297 -0.805 1.00 0.00 H
 ATOM 1309 2HG PRO A 89135.596 1.367 -0.332 1.00 0.00 H
 ATOM 1310 1HD PRO A 89135.619 -1.009 -2.142 1.00 0.00 H
 ATOM 1311 2HD PRO A 89136.522 0.515 -2.265 1.00 0.00 H
 ATOM 1312 N ASPA 90137.949 -2.484 2.196 1.00 0.00 N
 ATOM 1313 CA ASPA 90138.183 -3.784 2.811 1.00 0.00 C
 ATOM 1314 C ASPA 90137.359 -3.937 4.086 1.00 0.00 C
 ATOM 1315 O ASPA 90137.749 -3.455 5.149 1.00 0.00 O
 ATOM 1316 CB ASPA 90139.668 -3.964 3.127 1.00 0.00 C
 ATOM 1317 CG ASPA 90140.101 -5.416 3.066 1.00 0.00 C
 ATOM 1318 OD1 ASPA 90139.932 -6.041 1.997 1.00 0.00 O
 ATOM 1319 OD2 ASPA 90140.609 -5.928 4.085 1.00 0.00 O
 ATOM 1320 H ASPA 90138.389 -1.691 2.569 1.00 0.00 H
 ATOM 1321 HA ASPA 90137.878 -4.544 2.107 1.00 0.00 H
 ATOM 1322 1HB ASPA 90140.253 -3.403 2.413 1.00 0.00 H
 ATOM 1323 2HB ASPA 90139.866 -3.589 4.120 1.00 0.00 H
 ATOM 1324 N SERA 91136.220 -4.611 3.972 1.00 0.00 N
 ATOM 1325 CA SERA 91135.343 -4.826 5.118 1.00 0.00 C
 ATOM 1326 C SERA 91135.563 -6.209 5.723 1.00 0.00 C

ATOM 1327 O SER A 91134.646 -6.803 6.289 1.00 0.00 O
 ATOM 1328 CB SER A 91133.879 -4.667 4.702 1.00 0.00 C
 ATOM 1329 OG SER A 91133.091 -4.194 5.781 1.00 0.00 O
 ATOM 1330 H SER A 91135.962 -4.972 3.098 1.00 0.00 H
 ATOM 1331 HA SER A 91135.579 -4.079 5.859 1.00 0.00 H
 ATOM 1332 1HB SER A 91133.812 -3.962 3.887 1.00 0.00 H
 ATOM 1333 2HB SER A 91133.492 -5.624 4.383 1.00 0.00 H
 ATOM 1334 HG SER A 91132.300 -4.732 5.861 1.00 0.00 H
 ATOM 1335 N ARG A 92136.787 -6.715 5.600 1.00 0.00 N
 ATOM 1336 CA ARG A 92137.126 -8.028 6.137 1.00 0.00 C
 ATOM 1337 C ARG A 92137.058 -8.025 7.660 1.00 0.00 C
 ATOM 1338 O ARG A 92136.757 -9.045 8.281 1.00 0.00 O
 ATOM 1339 CB ARG A 92138.525 -8.444 5.677 1.00 0.00 C
 ATOM 1340 CG ARG A 92138.648 -8.601 4.171 1.00 0.00 C
 ATOM 1341 CD ARG A 92137.984 -9.879 3.686 1.00 0.00 C
 ATOM 1342 NE ARG A 92136.678 -9.622 3.082 1.00 0.00 N
 ATOM 1343 CZ ARG A 92136.048 -10.481 2.285 1.00 0.00 C
 ATOM 1344 NH1 ARG A 92136.599 -11.654 1.994 1.00 0.00 N
 ATOM 1345 NH2 ARG A 92134.864 -10.169 1.777 1.00 0.00 N
 ATOM 1346 H ARG A 92137.477 -6.195 5.139 1.00 0.00 H
 ATOM 1347 HA ARG A 92136.406 -8.738 5.757 1.00 0.00 H
 ATOM 1348 1HB ARG A 92139.234 -7.696 5.999 1.00 0.00 H
 ATOM 1349 2HB ARG A 92138.776 -9.388 6.138 1.00 0.00 H
 ATOM 1350 1HG ARG A 92138.176 -7.758 3.690 1.00 0.00 H
 ATOM 1351 2HG ARG A 92139.696 -8.627 3.906 1.00 0.00 H
 ATOM 1352 1HD ARG A 92138.623 -10.346 2.952 1.00 0.00 H
 ATOM 1353 2HD ARG A 92137.856 -10.545 4.527 1.00 0.00 H
 ATOM 1354 HE ARG A 92136.248 -8.764 3.281 1.00 0.00 H
 ATOM 1355 1HH1 ARG A 92137.492 -11.896 2.373 1.00 0.00 H
 ATOM 1356 2HH1 ARG A 92136.120 -12.295 1.395 1.00 0.00 H
 ATOM 1357 1HH2 ARG A 92134.444 -9.288 1.993 1.00 0.00 H

ATOM 1358 2HH2 ARG A 92134.390 -10.815 1.177 1.00 0.00 H
 ATOM 1359 N PHE A 93137.340 -6.872 8.258 1.00 0.00 N
 ATOM 1360 CA PHE A 93137.310 -6.734 9.709 1.00 0.00 C
 ATOM 1361 C PHE A 93136.350 -5.627 10.133 1.00 0.00 C
 ATOM 1362 O PHE A 93136.554 -4.973 11.155 1.00 0.00 O
 ATOM 1363 CB PHE A 93138.713 -6.439 10.243 1.00 0.00 C
 ATOM 1364 CG PHE A 93139.735 -7.465 9.842 1.00 0.00 C
 ATOM 1365 CD1 PHE A 93140.148 -7.570 8.523 1.00 0.00 C
 ATOM 1366 CD2 PHE A 93140.281 -8.323 10.782 1.00 0.00 C
 ATOM 1367 CE1 PHE A 93141.090 -8.512 8.151 1.00 0.00 C
 ATOM 1368 CE2 PHE A 93141.222 -9.267 10.416 1.00 0.00 C
 ATOM 1369 CZ PHE A 93141.626 -9.361 9.099 1.00 0.00 C
 ATOM 1370 H PHE A 93137.572 -6.093 7.709 1.00 0.00 H
 ATOM 1371 HA PHE A 93136.966 -7.671 10.124 1.00 0.00 H
 ATOM 1372 1HB PHE A 93139.039 -5.481 9.867 1.00 0.00 H
 ATOM 1373 2HB PHE A 93138.680 -6.406 11.321 1.00 0.00 H
 ATOM 1374 HD1 PHE A 93139.731 -6.905 7.782 1.00 0.00 H
 ATOM 1375 HD2 PHE A 93139.965 -8.250 11.813 1.00 0.00 H
 ATOM 1376 HE1 PHE A 93141.403 -8.585 7.120 1.00 0.00 H
 ATOM 1377 HE2 PHE A 93141.639 -9.930 11.159 1.00 0.00 H
 ATOM 1378 HZ PHE A 93142.361 -10.099 8.811 1.00 0.00 H
 ATOM 1379 N ALA A 94135.303 -5.421 9.339 1.00 0.00 N
 ATOM 1380 CA ALA A 94134.313 -4.393 9.632 1.00 0.00 C
 ATOM 1381 C ALA A 94133.083 -4.992 10.307 1.00 0.00 C
 ATOM 1382 O ALA A 94132.438 -5.889 9.763 1.00 0.00 O
 ATOM 1383 CB ALA A 94133.918 -3.663 8.357 1.00 0.00 C
 ATOM 1384 H ALA A 94135.195 -5.975 8.537 1.00 0.00 H
 ATOM 1385 HA ALA A 94134.765 -3.677 10.302 1.00 0.00 H
 ATOM 1386 1HB ALA A 94134.109 -2.606 8.472 1.00 0.00 H
 ATOM 1387 2HB ALA A 94132.867 -3.819 8.161 1.00 0.00 H
 ATOM 1388 3HB ALA A 94134.498 -4.044 7.530 1.00 0.00 H

ATOM 1389 N SER A 95132.763 -4.490 11.495 1.00 0.00 N
 ATOM 1390 CA SER A 95131.610 -4.975 12.245 1.00 0.00 C
 ATOM 1391 C SER A 95130.308 -4.529 11.587 1.00 0.00 C
 ATOM 1392 O SER A 95129.946 -3.354 11.637 1.00 0.00 O
 ATOM 1393 CB SER A 95131.664 -4.470 13.688 1.00 0.00 C
 ATOM 1394 OG SER A 95131.564 -3.058 13.739 1.00 0.00 O
 ATOM 1395 H SER A 95133.315 -3.776 11.877 1.00 0.00 H
 ATOM 1396 HA SER A 95131.648 -6.054 12.249 1.00 0.00 H
 ATOM 1397 1HB SER A 95130.845 -4.897 14.247 1.00 0.00 H
 ATOM 1398 2HB SER A 95132.600 -4.770 14.136 1.00 0.00 H
 ATOM 1399 HG SER A 95132.373 -2.667 13.400 1.00 0.00 H
 ATOM 1400 N LEU A 96129.608 -5.477 10.970 1.00 0.00 N
 ATOM 1401 CA LEU A 96128.346 -5.182 10.302 1.00 0.00 C
 ATOM 1402 C LEU A 96127.436 -6.404 10.293 1.00 0.00 C
 ATOM 1403 O LEU A 96126.247 -6.309 10.601 1.00 0.00 O
 ATOM 1404 CB LEU A 96128.601 -4.708 8.870 1.00 0.00 C
 ATOM 1405 CG LEU A 96127.648 -3.623 8.366 1.00 0.00 C
 ATOM 1406 CD1 LEU A 96128.191 -2.242 8.694 1.00 0.00 C
 ATOM 1407 CD2 LEU A 96127.421 -3.768 6.869 1.00 0.00 C
 ATOM 1408 H LEU A 96129.949 -6.395 10.965 1.00 0.00 H
 ATOM 1409 HA LEU A 96127.859 -4.393 10.851 1.00 0.00 H
 ATOM 1410 1HB LEU A 96129.611 -4.326 8.814 1.00 0.00 H
 ATOM 1411 2HB LEU A 96128.520 -5.561 8.212 1.00 0.00 H
 ATOM 1412 HG LEU A 96126.695 -3.733 8.862 1.00 0.00 H
 ATOM 1413 1HD1 LEU A 96129.269 -2.255 8.634 1.00 0.00 H
 ATOM 1414 2HD1 LEU A 96127.889 -1.963 9.694 1.00 0.00 H
 ATOM 1415 3HD1 LEU A 96127.801 -1.524 7.987 1.00 0.00 H
 ATOM 1416 1HD2 LEU A 96126.537 -4.363 6.695 1.00 0.00 H
 ATOM 1417 2HD2 LEU A 96128.275 -4.253 6.421 1.00 0.00 H
 ATOM 1418 3HD2 LEU A 96127.289 -2.790 6.429 1.00 0.00 H
 ATOM 1419 N GLN A 97128.003 -7.548 9.937 1.00 0.00 N

ATOM 1420 CA GLN A 97127.247 -8.794 9.885 1.00 0.00 C
 ATOM 1421 C GLN A 97126.955 -9.315 11.292 1.00 0.00 C
 ATOM 1422 O GLN A 97125.796 -9.457 11.681 1.00 0.00 O
 ATOM 1423 CB GLN A 97128.014 -9.848 9.081 1.00 0.00 C
 ATOM 1424 CG GLN A 97127.274 -10.326 7.843 1.00 0.00 C
 ATOM 1425 CD GLN A 97127.055 -9.219 6.831 1.00 0.00 C
 ATOM 1426 OE1 GLN A 97127.736 -8.193 6.859 1.00 0.00 O
 ATOM 1427 NE2 GLN A 97126.102 -9.421 5.929 1.00 0.00 N
 ATOM 1428 H GLN A 97128.953 -7.555 9.703 1.00 0.00 H
 ATOM 1429 HA GLN A 97126.309 -8.591 9.390 1.00 0.00 H
 ATOM 1430 1HB GLN A 97128.959 -9.428 8.770 1.00 0.00 H
 ATOM 1431 2HB GLN A 97128.202 -10.703 9.714 1.00 0.00 H
 ATOM 1432 1HG GLN A 97127.849 -11.112 7.376 1.00 0.00 H
 ATOM 1433 2HG GLN A 97126.311 -10.716 8.143 1.00 0.00 H
 ATOM 1434 1HE2 GLN A 97125.600 -10.262 5.967 1.00 0.00 H
 ATOM 1435 2HE2 GLN A 97125.939 -8.721 5.262 1.00 0.00 H
 ATOM 1436 N PRO A 98128.007 -9.608 12.075 1.00 0.00 N
 ATOM 1437 CA PRO A 98127.855 -10.116 13.442 1.00 0.00 C
 ATOM 1438 C PRO A 98127.388 -9.036 14.412 1.00 0.00 C
 ATOM 1439 O PRO A 98127.027 -7.933 14.001 1.00 0.00 O
 ATOM 1440 CB PRO A 98129.266 -10.584 13.802 1.00 0.00 C
 ATOM 1441 CG PRO A 98130.167 -9.736 12.973 1.00 0.00 C
 ATOM 1442 CD PRO A 98129.426 -9.470 11.691 1.00 0.00 C
 ATOM 1443 HA PRO A 98127.174 -10.952 13.480 1.00 0.00 H
 ATOM 1444 1HB PRO A 98129.439 -10.434 14.858 1.00 0.00 H
 ATOM 1445 2HB PRO A 98129.375 -11.630 13.558 1.00 0.00 H
 ATOM 1446 1HG PRO A 98130.372 -8.809 13.488 1.00 0.00 H
 ATOM 1447 2HG PRO A 98131.086 -10.266 12.772 1.00 0.00 H
 ATOM 1448 1HD PRO A 98129.634 -8.470 11.337 1.00 0.00 H
 ATOM 1449 2HD PRO A 98129.695 -10.199 10.941 1.00 0.00 H
 ATOM 1450 N SER A 99127.397 -9.361 15.700 1.00 0.00 N

ATOM 1451 CA SER A 99126.974 -8.420 16.730 1.00 0.00 C
 ATOM 1452 C SER A 99128.013 -8.325 17.842 1.00 0.00 C
 ATOM 1453 O SER A 99127.894 -8.984 18.875 1.00 0.00 O
 ATOM 1454 CB SER A 99125.624 -8.841 17.313 1.00 0.00 C
 ATOM 1455 OG SER A 99125.449 -10.245 17.232 1.00 0.00 O
 ATOM 1456 H SER A 99127.696 -10.257 15.965 1.00 0.00 H
 ATOM 1457 HA SER A 99126.869 -7.449 16.269 1.00 0.00 H
 ATOM 1458 1HB SER A 99125.573 -8.545 18.351 1.00 0.00 H
 ATOM 1459 2HB SER A 99124.830 -8.359 16.762 1.00 0.00 H
 ATOM 1460 HG SER A 99125.229 -10.489 16.329 1.00 0.00 H
 ATOM 1461 N GLY A 100129.034 -7.502 17.623 1.00 0.00 N
 ATOM 1462 CA GLY A 100130.080 -7.338 18.614 1.00 0.00 C
 ATOM 1463 C GLY A 100129.626 -6.514 19.806 1.00 0.00 C
 ATOM 1464 O GLY A 100128.689 -5.723 19.694 1.00 0.00 O
 ATOM 1465 H GLY A 100129.076 -7.003 16.780 1.00 0.00 H
 ATOM 1466 1HA GLY A 100130.389 -8.312 18.962 1.00 0.00 H
 ATOM 1467 2HA GLY A 100130.925 -6.847 18.153 1.00 0.00 H
 ATOM 1468 N PRO A 101130.277 -6.678 20.969 1.00 0.00 N
 ATOM 1469 CA PRO A 101129.924 -5.935 22.183 1.00 0.00 C
 ATOM 1470 C PRO A 101130.281 -4.456 22.081 1.00 0.00 C
 ATOM 1471 O PRO A 101130.835 -4.008 21.078 1.00 0.00 O
 ATOM 1472 CB PRO A 101130.760 -6.613 23.272 1.00 0.00 C
 ATOM 1473 CG PRO A 101131.923 -7.196 22.548 1.00 0.00 C
 ATOM 1474 CD PRO A 101131.408 -7.600 21.194 1.00 0.00 C
 ATOM 1475 HA PRO A 101128.874 -6.036 22.418 1.00 0.00 H
 ATOM 1476 1HB PRO A 101131.075 -5.877 23.998 1.00 0.00 H
 ATOM 1477 2HB PRO A 101130.173 -7.379 23.757 1.00 0.00 H
 ATOM 1478 1HG PRO A 101132.702 -6.456 22.446 1.00 0.00 H
 ATOM 1479 2HG PRO A 101132.292 -8.060 23.080 1.00 0.00 H
 ATOM 1480 1HD PRO A 101132.171 -7.462 20.442 1.00 0.00 H
 ATOM 1481 2HD PRO A 101131.071 -8.625 21.207 1.00 0.00 H

ATOM 1482 N SER A 102129.959 -3.702 23.127 1.00 0.00 N
 ATOM 1483 CA SER A 102130.245 -2.272 23.156 1.00 0.00 C
 ATOM 1484 C SER A 102131.024 -1.897 24.413 1.00 0.00 C
 ATOM 1485 O SER A 102132.035 -1.200 24.344 1.00 0.00 O
 ATOM 1486 CB SER A 102128.945 -1.469 23.089 1.00 0.00 C
 ATOM 1487 OG SER A 102127.980 -2.124 22.284 1.00 0.00 O
 ATOM 1488 H SER A 102129.518 -4.116 23.899 1.00 0.00 H
 ATOM 1489 HA SER A 102130.847 -2.037 22.291 1.00 0.00 H
 ATOM 1490 1HB SER A 102128.544 -1.353 24.086 1.00 0.00 H
 ATOM 1491 2HB SER A 102129.146 -0.495 22.668 1.00 0.00 H
 ATOM 1492 HG SER A 102128.380 -2.382 21.450 1.00 0.00 H
 ATOM 1493 N SER A 103130.545 -2.367 25.561 1.00 0.00 N
 ATOM 1494 CA SER A 103131.197 -2.082 26.834 1.00 0.00 C
 ATOM 1495 C SER A 103130.874 -3.160 27.863 1.00 0.00 C
 ATOM 1496 O SER A 103131.771 -3.823 28.384 1.00 0.00 O
 ATOM 1497 CB SER A 103130.760 -0.712 27.358 1.00 0.00 C
 ATOM 1498 OG SER A 103131.620 0.311 26.891 1.00 0.00 O
 ATOM 1499 H SER A 103129.734 -2.918 25.551 1.00 0.00 H
 ATOM 1500 HA SER A 103132.262 -2.069 26.665 1.00 0.00 H
 ATOM 1501 1HB SER A 103129.756 -0.503 27.021 1.00 0.00 H
 ATOM 1502 2HB SER A 103130.783 -0.720 28.438 1.00 0.00 H
 ATOM 1503 HG SER A 103132.396 0.360 27.455 1.00 0.00 H
 ATOM 1504 N GLY A 104129.588 -3.329 28.153 1.00 0.00 N
 ATOM 1505 CA GLY A 104129.170 -4.328 29.119 1.00 0.00 C
 ATOM 1506 C GLY A 104127.832 -4.001 29.751 1.00 0.00 C
 ATOM 1507 O GLY A 104127.823 -3.345 30.815 1.00 0.00 O
 ATOM 1508 OXT GLY A 104126.794 -4.397 29.183 1.00 0.00 O
 ATOM 1509 H GLY A 104128.917 -2.771 27.707 1.00 0.00 H
 ATOM 1510 1HA GLY A 104129.097 -5.284 28.622 1.00 0.00 H
 ATOM 1511 2HA GLY A 104129.917 -4.395 29.897 1.00 0.00 H
 TER 1512 GLY A 104

ENDMDL

Three-Dimensional Structure Coordinate Table 8

ATOM 1	N	GLY A	1135.862	21.326	-5.428	1.00	0.00	N
ATOM 2	CA	GLY A	1136.784	22.453	-5.740	1.00	0.00	C
ATOM 3	C	GLY A	1136.436	23.144	-7.044	1.00	0.00	C
ATOM 4	O	GLY A	1135.778	24.184	-7.046	1.00	0.00	O
ATOM 5	1H	GLY A	1134.965	21.447	-5.941	1.00	0.00	H
ATOM 6	2H	GLY A	1135.664	21.298	-4.408	1.00	0.00	H
ATOM 7	3H	GLY A	1136.294	20.423	-5.712	1.00	0.00	H
ATOM 8	1HA	GLY A	1136.736	23.175	-4.938	1.00	0.00	H
ATOM 9	2HA	GLY A	1137.793	22.071	-5.805	1.00	0.00	H
ATOM10	N	SER A	2136.880	22.565	-8.154	1.00	0.00	N
ATOM11	CA	SER A	2136.611	23.132	-9.471	1.00	0.00	C
ATOM12	C	SER A	2135.133	23.008	-9.825	1.00	0.00	C
ATOM13	O	SER A	2134.622	21.906	-10.024	1.00	0.00	O
ATOM14	CB	SER A	2137.463	22.432	-10.532	1.00	0.00	C
ATOM15	OG	SER A	2137.904	23.351	-11.518	1.00	0.00	O
ATOM16	H	SER A	2137.399	21.736	-8.087	1.00	0.00	H
ATOM17	HA	SER A	2136.876	24.178	-9.441	1.00	0.00	H
ATOM18	1HB	SER A	2138.326	21.986	-10.063	1.00	0.00	H
ATOM19	2HB	SER A	2136.876	21.663	-11.012	1.00	0.00	H
ATOM20	HG	SER A	2138.856	23.456	-11.454	1.00	0.00	H
ATOM21	N	SER A	3134.452	24.146	-9.904	1.00	0.00	N
ATOM22	CA	SER A	3133.032	24.166	-10.234	1.00	0.00	C
ATOM23	C	SER A	3132.822	24.039	-11.740	1.00	0.00	C
ATOM24	O	SER A	3133.076	24.979	-12.494	1.00	0.00	O
ATOM25	CB	SER A	3132.385	25.455	-9.725	1.00	0.00	C
ATOM26	OG	SER A	3132.929	26.590	-10.375	1.00	0.00	O
ATOM27	H	SER A	3134.915	24.993	-9.735	1.00	0.00	H
ATOM28	HA	SER A	3132.567	23.323	-9.747	1.00	0.00	H

ATOM29 1HB SER A 3131.323 25.422 -9.915 1.00 0.00 H
 ATOM30 2HB SER A 3132.558 25.547 -8.663 1.00 0.00 H
 ATOM31 HG SER A 3132.626 26.615 -11.286 1.00 0.00 H
 ATOM32 N GLY A 4132.358 22.871 -12.172 1.00 0.00 N
 ATOM33 CA GLY A 4132.122 22.643 -13.585 1.00 0.00 C
 ATOM34 C GLY A 4132.095 21.169 -13.938 1.00 0.00 C
 ATOM35 O GLY A 4132.285 20.314 -13.073 1.00 0.00 O
 ATOM36 H GLY A 4132.174 22.159 -11.525 1.00 0.00 H
 ATOM37 1HA GLY A 4131.175 23.084 -13.857 1.00 0.00 H
 ATOM38 2HA GLY A 4132.906 23.123 -14.151 1.00 0.00 H
 ATOM39 N SER A 5131.857 20.871 -15.211 1.00 0.00 N
 ATOM40 CA SER A 5131.806 19.490 -15.676 1.00 0.00 C
 ATOM41 C SER A 5130.700 18.717 -14.963 1.00 0.00 C
 ATOM42 O SER A 5130.136 19.190 -13.977 1.00 0.00 O
 ATOM43 CB SER A 5133.153 18.803 -15.448 1.00 0.00 C
 ATOM44 OG SER A 5133.460 17.916 -16.510 1.00 0.00 O
 ATOM45 H SER A 5131.714 21.598 -15.853 1.00 0.00 H
 ATOM46 HA SER A 5131.593 19.505 -16.734 1.00 0.00 H
 ATOM47 1HB SER A 5133.930 19.550 -15.385 1.00 0.00 H
 ATOM48 2HB SER A 5133.118 18.242 -14.526 1.00 0.00 H
 ATOM49 HG SER A 5133.809 18.414 -17.252 1.00 0.00 H
 ATOM50 N SER A 6130.397 17.527 -15.469 1.00 0.00 N
 ATOM51 CA SER A 6129.360 16.689 -14.880 1.00 0.00 C
 ATOM52 C SER A 6129.754 15.216 -14.934 1.00 0.00 C
 ATOM53 O SER A 6129.519 14.536 -15.934 1.00 0.00 O
 ATOM54 CB SER A 6128.031 16.900 -15.608 1.00 0.00 C
 ATOM55 OG SER A 6128.003 18.156 -16.264 1.00 0.00 O
 ATOM56 H SER A 6130.884 17.203 -16.256 1.00 0.00 H
 ATOM57 HA SER A 6129.244 16.980 -13.847 1.00 0.00 H
 ATOM58 1HB SER A 6127.897 16.121 -16.343 1.00 0.00 H
 ATOM59 2HB SER A 6127.222 16.863 -14.893 1.00 0.00 H

ATOM60 HG SER A 6127.925 18.856 -15.612 1.00 0.00 H
 ATOM61 N GLY A 7130.352 14.729 -13.853 1.00 0.00 N
 ATOM62 CA GLY A 7130.769 13.340 -13.798 1.00 0.00 C
 ATOM63 C GLY A 7131.372 12.967 -12.458 1.00 0.00 C
 ATOM64 O GLY A 7132.589 12.825 -12.335 1.00 0.00 O
 ATOM65 H GLY A 7130.513 15.317 -13.085 1.00 0.00 H
 ATOM66 1HA GLY A 7129.910 12.711 -13.981 1.00 0.00 H
 ATOM67 2HA GLY A 7131.502 13.165 -14.571 1.00 0.00 H
 ATOM68 N LEU A 8130.520 12.809 -11.450 1.00 0.00 N
 ATOM69 CA LEU A 8130.974 12.451 -10.112 1.00 0.00 C
 ATOM70 C LEU A 8130.399 11.105 -9.684 1.00 0.00 C
 ATOM71 O LEU A 8129.312 10.718 -10.114 1.00 0.00 O
 ATOM72 CB LEU A 8130.573 13.532 -9.107 1.00 0.00 C
 ATOM73 CG LEU A 8130.735 14.970 -9.605 1.00 0.00 C
 ATOM74 CD1 LEU A 8129.892 15.921 -8.770 1.00 0.00 C
 ATOM75 CD2 LEU A 8132.199 15.382 -9.570 1.00 0.00 C
 ATOM76 H LEU A 8129.561 12.936 -11.611 1.00 0.00 H
 ATOM77 HA LEU A 8132.051 12.376 -10.136 1.00 0.00 H
 ATOM78 1HB LEU A 8129.538 13.379 -8.841 1.00 0.00 H
 ATOM79 2HB LEU A 8131.177 13.412 -8.221 1.00 0.00 H
 ATOM80 HG LEU A 8130.392 15.031 -10.627 1.00 0.00 H
 ATOM81 1HD1 LEU A 8129.871 16.892 -9.242 1.00 0.00 H
 ATOM82 2HD1 LEU A 8130.321 16.010 -7.782 1.00 0.00 H
 ATOM83 3HD1 LEU A 8128.885 15.537 -8.692 1.00 0.00 H
 ATOM84 1HD2 LEU A 8132.656 15.168 -10.525 1.00 0.00 H
 ATOM85 2HD2 LEU A 8132.710 14.832 -8.795 1.00 0.00 H
 ATOM86 3HD2 LEU A 8132.270 16.441 -9.367 1.00 0.00 H
 ATOM87 N ALA A 9131.134 10.395 -8.834 1.00 0.00 N
 ATOM88 CA ALA A 9130.696 9.092 -8.348 1.00 0.00 C
 ATOM89 C ALA A 9131.453 8.694 -7.086 1.00 0.00 C
 ATOM90 O ALA A 9131.772 7.522 -6.886 1.00 0.00 O

ATOM91 CB ALAA 9130.878 8.038 -9.430 1.00 0.00 C
 ATOM92 H ALAA 9131.991 10.756 -8.527 1.00 0.00 H
 ATOM93 HA ALAA 9129.643 9.160 -8.118 1.00 0.00 H
 ATOM94 1HB ALAA 9129.990 7.996 -10.045 1.00 0.00 H
 ATOM95 2HB ALAA 9131.042 7.075 -8.970 1.00 0.00 H
 ATOM96 3HB ALAA 9131.728 8.295 -10.044 1.00 0.00 H
 ATOM97 N META 10131.737 9.675 -6.238 1.00 0.00 N
 ATOM98 CA META 10132.457 9.427 -4.994 1.00 0.00 C
 ATOM99 C META 10132.314 10.608 -4.035 1.00 0.00 C
 ATOM 100 O META 10133.291 11.291 -3.728 1.00 0.00 O
 ATOM 101 CB META 10133.936 9.159 -5.280 1.00 0.00 C
 ATOM 102 CG META 10134.602 10.248 -6.106 1.00 0.00 C
 ATOM 103 SD META 10136.400 10.200 -5.997 1.00 0.00 S
 ATOM 104 CE META 10136.829 11.766 -6.751 1.00 0.00 C
 ATOM 105 H META 10131.456 10.589 -6.452 1.00 0.00 H
 ATOM 106 HA META 10132.025 8.550 -4.532 1.00 0.00 H
 ATOM 107 1HB META 10134.463 9.076 -4.342 1.00 0.00 H
 ATOM 108 2HB META 10134.023 8.226 -5.817 1.00 0.00 H
 ATOM 109 1HG META 10134.315 10.123 -7.140 1.00 0.00 H
 ATOM 110 2HG META 10134.259 11.209 -5.752 1.00 0.00 H
 ATOM 111 1HE META 10137.179 11.598 -7.758 1.00 0.00 H
 ATOM 112 2HE META 10137.606 12.244 -6.174 1.00 0.00 H
 ATOM 113 3HE META 10135.957 12.404 -6.776 1.00 0.00 H
 ATOM 114 N PRO A 11131.087 10.866 -3.550 1.00 0.00 N
 ATOM 115 CA PRO A 11130.821 11.971 -2.624 1.00 0.00 C
 ATOM 116 C PRO A 11131.642 11.867 -1.340 1.00 0.00 C
 ATOM 117 O PRO A 11132.251 12.845 -0.908 1.00 0.00 O
 ATOM 118 CB PRO A 11129.326 11.848 -2.315 1.00 0.00 C
 ATOM 119 CG PRO A 11128.762 11.010 -3.412 1.00 0.00 C
 ATOM 120 CD PRO A 11129.869 10.103 -3.867 1.00 0.00 C
 ATOM 121 HA PRO A 11131.015 12.926 -3.092 1.00 0.00 H

ATOM	122	1HB	PRO A	11129.192	11.379	-1.351	1.00	0.00	H
ATOM	123	2HB	PRO A	11128.878	12.831	-2.304	1.00	0.00	H
ATOM	124	1HG	PRO A	11127.936	10.427	-3.036	1.00	0.00	H
ATOM	125	2HG	PRO A	11128.436	11.641	-4.225	1.00	0.00	H
ATOM	126	1HD	PRO A	11129.843	9.171	-3.321	1.00	0.00	H
ATOM	127	2HD	PRO A	11129.794	9.920	-4.929	1.00	0.00	H
ATOM	128	N	PRO A	12131.677	10.677	-0.709	1.00	0.00	N
ATOM	129	CA	PRO A	12132.438	10.469	0.528	1.00	0.00	C
ATOM	130	C	PRO A	12133.904	10.857	0.370	1.00	0.00	C
ATOM	131	O	PRO A	12134.589	11.145	1.352	1.00	0.00	O
ATOM	132	CB	PRO A	12132.309	8.965	0.784	1.00	0.00	C
ATOM	133	CG	PRO A	12131.074	8.556	0.061	1.00	0.00	C
ATOM	134	CD	PRO A	12130.989	9.447	-1.146	1.00	0.00	C
ATOM	135	HA	PRO A	12132.008	11.017	1.353	1.00	0.00	H
ATOM	136	1HB	PRO A	12133.180	8.455	0.397	1.00	0.00	H
ATOM	137	2HB	PRO A	12132.223	8.783	1.845	1.00	0.00	H
ATOM	138	1HG	PRO A	12131.149	7.522	-0.240	1.00	0.00	H
ATOM	139	2HG	PRO A	12130.212	8.703	0.695	1.00	0.00	H
ATOM	140	1HD	PRO A	12131.501	8.996	-1.984	1.00	0.00	H
ATOM	141	2HD	PRO A	12129.959	9.647	-1.395	1.00	0.00	H
ATOM	142	N	GLY A	13134.378	10.862	-0.872	1.00	0.00	N
ATOM	143	CA	GLY A	13135.761	11.216	-1.136	1.00	0.00	C
ATOM	144	C	GLY A	13136.420	10.278	-2.127	1.00	0.00	C
ATOM	145	O	GLY A	13136.953	10.716	-3.146	1.00	0.00	O
ATOM	146	H	GLY A	13133.785	10.624	-1.616	1.00	0.00	H
ATOM	147	1HA	GLY A	13135.794	12.220	-1.531	1.00	0.00	H
ATOM	148	2HA	GLY A	13136.311	11.187	-0.208	1.00	0.00	H
ATOM	149	N	ASNA	14136.385	8.983	-1.827	1.00	0.00	N
ATOM	150	CA	ASNA	14136.984	7.980	-2.698	1.00	0.00	C
ATOM	151	C	ASNA	14136.171	6.690	-2.683	1.00	0.00	C
ATOM	152	O	ASNA	14136.322	5.861	-1.785	1.00	0.00	O

ATOM	153	CB	ASN A	14138.424	7.694	-2.268	1.00	0.00	C
ATOM	154	CG	ASN A	14139.315	8.916	-2.382	1.00	0.00	C
ATOM	155	OD1	ASN A	14140.077	9.056	-3.338	1.00	0.00	O
ATOM	156	ND2	ASN A	14139.222	9.809	-1.403	1.00	0.00	N
ATOM	157	H	ASN A	14135.946	8.697	-0.999	1.00	0.00	H
ATOM	158	HA	ASN A	14136.990	8.375	-3.704	1.00	0.00	H
ATOM	159	1HB	ASN A	14138.428	7.364	-1.240	1.00	0.00	H
ATOM	160	2HB	ASN A	14138.832	6.914	-2.894	1.00	0.00	H
ATOM	161	1HD2	ASN A	14138.593	9.631	-0.673	1.00	0.00	H
ATOM	162	2HD2	ASN A	14139.787	10.609	-1.451	1.00	0.00	H
ATOM	163	N	SER A	15135.310	6.527	-3.682	1.00	0.00	N
ATOM	164	CA	SER A	15134.470	5.338	-3.787	1.00	0.00	C
ATOM	165	C	SER A	15133.494	5.253	-2.616	1.00	0.00	C
ATOM	166	O	SER A	15132.317	5.585	-2.753	1.00	0.00	O
ATOM	167	CB	SER A	15135.336	4.076	-3.840	1.00	0.00	C
ATOM	168	OG	SER A	15135.576	3.678	-5.179	1.00	0.00	O
ATOM	169	H	SER A	15135.237	7.224	-4.368	1.00	0.00	H
ATOM	170	HA	SER A	15133.905	5.413	-4.704	1.00	0.00	H
ATOM	171	1HB	SER A	15136.284	4.272	-3.361	1.00	0.00	H
ATOM	172	2HB	SER A	15134.832	3.273	-3.323	1.00	0.00	H
ATOM	173	HG	SER A	15136.355	4.129	-5.512	1.00	0.00	H
ATOM	174	N	HIS A	16133.990	4.808	-1.466	1.00	0.00	N
ATOM	175	CA	HIS A	16133.161	4.680	-0.273	1.00	0.00	C
ATOM	176	C	HIS A	16133.758	5.463	0.892	1.00	0.00	C
ATOM	177	O	HIS A	16133.046	6.158	1.616	1.00	0.00	O
ATOM	178	CB	HIS A	16133.007	3.208	0.111	1.00	0.00	C
ATOM	179	CG	HIS A	16131.982	2.480	-0.703	1.00	0.00	C
ATOM	180	ND1	HIS A	16130.635	2.772	-0.652	1.00	0.00	N
ATOM	181	CD2	HIS A	16132.113	1.469	-1.593	1.00	0.00	C
ATOM	182	CE1	HIS A	16129.982	1.969	-1.475	1.00	0.00	C
ATOM	183	NE2	HIS A	16130.856	1.170	-2.059	1.00	0.00	N

ATOM	184	H	HIS A	16134.936	4.559	-1.419	1.00	0.00	H
ATOM	185	HA	HIS A	16132.187	5.087	-0.502	1.00	0.00	H
ATOM	186	1HB	HIS A	16133.953	2.708	-0.024	1.00	0.00	H
ATOM	187	2HB	HIS A	16132.715	3.143	1.149	1.00	0.00	H
ATOM	188	HD1	HIS A	16130.219	3.462	-0.095	1.00	0.00	H
ATOM	189	HD2	HIS A	16133.035	0.986	-1.884	1.00	0.00	H
ATOM	190	HE1	HIS A	16128.915	1.969	-1.642	1.00	0.00	H
ATOM	191	HE2	HIS A	16130.650	0.540	-2.779	1.00	0.00	H
ATOM	192	N	GLY A	17135.070	5.345	1.066	1.00	0.00	N
ATOM	193	CA	GLY A	17135.741	6.047	2.144	1.00	0.00	C
ATOM	194	C	GLY A	17137.087	5.436	2.485	1.00	0.00	C
ATOM	195	O	GLY A	17137.242	4.806	3.530	1.00	0.00	O
ATOM	196	H	GLY A	17135.587	4.777	0.457	1.00	0.00	H
ATOM	197	1HA	GLY A	17135.889	7.076	1.853	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.113	6.019	3.022	1.00	0.00	H
ATOM	199	N	LEU A	18138.060	5.623	1.600	1.00	0.00	N
ATOM	200	CA	LEU A	18139.399	5.086	1.811	1.00	0.00	C
ATOM	201	C	LEU A	18140.344	6.167	2.328	1.00	0.00	C
ATOM	202	O	LEU A	18140.685	7.103	1.606	1.00	0.00	O
ATOM	203	CB	LEU A	18139.946	4.493	0.511	1.00	0.00	C
ATOM	204	CG	LEU A	18139.060	3.428	-0.138	1.00	0.00	C
ATOM	205	CD1	LEU A	18139.482	3.188	-1.579	1.00	0.00	C
ATOM	206	CD2	LEU A	18139.115	2.134	0.659	1.00	0.00	C
ATOM	207	H	LEU A	18137.874	6.134	0.784	1.00	0.00	H
ATOM	208	HA	LEU A	18139.328	4.303	2.551	1.00	0.00	H
ATOM	209	1HB	LEU A	18140.082	5.298	-0.196	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.908	4.051	0.718	1.00	0.00	H
ATOM	211	HG	LEU A	18138.037	3.776	-0.144	1.00	0.00	H
ATOM	212	1HD1	LEU A	18139.230	2.178	-1.864	1.00	0.00	H
ATOM	213	2HD1	LEU A	18140.549	3.332	-1.670	1.00	0.00	H
ATOM	214	3HD1	LEU A	18138.969	3.883	-2.226	1.00	0.00	H

ATOM	215	1HD2	LEU A	18140.134	1.935	0.954	1.00	0.00	H
ATOM	216	2HD2	LEU A	18138.751	1.320	0.050	1.00	0.00	H
ATOM	217	3HD2	LEU A	18138.497	2.226	1.540	1.00	0.00	H
ATOM	218	N	GLU A	19140.763	6.029	3.581	1.00	0.00	N
ATOM	219	CA	GLU A	19141.670	6.993	4.194	1.00	0.00	C
ATOM	220	C	GLU A	19142.671	6.294	5.108	1.00	0.00	C
ATOM	221	O	GLU A	19142.581	5.089	5.338	1.00	0.00	O
ATOM	222	CB	GLU A	19140.878	8.036	4.986	1.00	0.00	C
ATOM	223	CG	GLU A	19139.943	7.432	6.022	1.00	0.00	C
ATOM	224	CD	GLU A	19138.972	8.446	6.592	1.00	0.00	C
ATOM	225	OE1	GLU A	19138.749	8.429	7.820	1.00	0.00	O
ATOM	226	OE2	GLU A	19138.435	9.259	5.810	1.00	0.00	O
ATOM	227	H	GLU A	19140.458	5.260	4.107	1.00	0.00	H
ATOM	228	HA	GLU A	19142.209	7.491	3.402	1.00	0.00	H
ATOM	229	1HB	GLU A	19141.573	8.686	5.497	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.288	8.623	4.298	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.378	6.637	5.558	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.535	7.027	6.830	1.00	0.00	H
ATOM	233	N	VAL A	20143.626	7.060	5.626	1.00	0.00	N
ATOM	234	CA	VAL A	20144.644	6.514	6.516	1.00	0.00	C
ATOM	235	C	VAL A	20144.014	5.893	7.757	1.00	0.00	C
ATOM	236	O	VAL A	20143.157	6.499	8.401	1.00	0.00	O
ATOM	237	CB	VAL A	20145.649	7.598	6.952	1.00	0.00	C
ATOM	238	CG1	VAL A	20146.811	6.976	7.710	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.147	8.381	5.747	1.00	0.00	C
ATOM	240	H	VAL A	20143.645	8.015	5.406	1.00	0.00	H
ATOM	241	HA	VAL A	20145.184	5.750	5.976	1.00	0.00	H
ATOM	242	HB	VAL A	20145.142	8.284	7.615	1.00	0.00	H
ATOM	243	1HG1	VAL A	20147.087	6.042	7.244	1.00	0.00	H
ATOM	244	2HG1	VAL A	20146.517	6.793	8.733	1.00	0.00	H
ATOM	245	3HG1	VAL A	20147.655	7.650	7.693	1.00	0.00	H

ATOM	246	1HG2	VAL A	20147.116	8.803	5.967	1.00	0.00	H
ATOM	247	2HG2	VAL A	20145.451	9.175	5.521	1.00	0.00	H
ATOM	248	3HG2	VAL A	20146.227	7.720	4.897	1.00	0.00	H
ATOM	249	N	GLY A	21144.445	4.680	8.089	1.00	0.00	N
ATOM	250	CA	GLY A	21143.912	3.996	9.253	1.00	0.00	C
ATOM	251	C	GLY A	21142.916	2.914	8.885	1.00	0.00	C
ATOM	252	O	GLY A	21142.848	1.876	9.542	1.00	0.00	O
ATOM	253	H	GLY A	21145.130	4.247	7.539	1.00	0.00	H
ATOM	254	1HA	GLY A	21144.730	3.548	9.799	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.424	4.720	9.888	1.00	0.00	H
ATOM	256	N	SER A	22142.142	3.158	7.834	1.00	0.00	N
ATOM	257	CA	SER A	22141.145	2.196	7.379	1.00	0.00	C
ATOM	258	C	SER A	22141.791	1.093	6.546	1.00	0.00	C
ATOM	259	O	SER A	22142.817	1.309	5.902	1.00	0.00	O
ATOM	260	CB	SER A	22140.061	2.901	6.561	1.00	0.00	C
ATOM	261	OG	SER A	22139.134	3.563	7.404	1.00	0.00	O
ATOM	262	H	SER A	22142.245	4.005	7.350	1.00	0.00	H
ATOM	263	HA	SER A	22140.691	1.752	8.253	1.00	0.00	H
ATOM	264	1HB	SER A	22140.522	3.631	5.911	1.00	0.00	H
ATOM	265	2HB	SER A	22139.532	2.172	5.965	1.00	0.00	H
ATOM	266	HG	SER A	22139.608	4.049	8.083	1.00	0.00	H
ATOM	267	N	LEU A	23141.182	-0.088	6.563	1.00	0.00	N
ATOM	268	CA	LEU A	23141.698	-1.224	5.809	1.00	0.00	C
ATOM	269	C	LEU A	23141.307	-1.125	4.338	1.00	0.00	C
ATOM	270	O	LEU A	23140.274	-0.549	3.998	1.00	0.00	O
ATOM	271	CB	LEU A	23141.177	-2.535	6.399	1.00	0.00	C
ATOM	272	CG	LEU A	23141.354	-2.680	7.911	1.00	0.00	C
ATOM	273	CD1	LEU A	23140.277	-3.584	8.491	1.00	0.00	C
ATOM	274	CD2	LEU A	23142.738	-3.221	8.235	1.00	0.00	C
ATOM	275	H	LEU A	23140.367	-0.198	7.095	1.00	0.00	H
ATOM	276	HA	LEU A	23142.775	-1.210	5.884	1.00	0.00	H

ATOM	277	1HB	LEU A	23140.123	-2.612	6.172	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.693	-3.352	5.919	1.00	0.00	H
ATOM	279	HG	LEU A	23141.257	-1.708	8.373	1.00	0.00	H
ATOM	280	1HD1	LEU A	23140.028	-3.253	9.489	1.00	0.00	H
ATOM	281	2HD1	LEU A	23140.642	-4.600	8.529	1.00	0.00	H
ATOM	282	3HD1	LEU A	23139.396	-3.540	7.868	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.421	-2.963	7.439	1.00	0.00	H
ATOM	284	2HD2	LEU A	23142.691	-4.296	8.333	1.00	0.00	H
ATOM	285	3HD2	LEU A	23143.085	-2.791	9.162	1.00	0.00	H
ATOM	286	N	ALAA	24142.140	-1.689	3.470	1.00	0.00	N
ATOM	287	CA	ALAA	24141.882	-1.663	2.035	1.00	0.00	C
ATOM	288	C	ALAA	24142.477	-2.887	1.349	1.00	0.00	C
ATOM	289	O	ALAA	24143.416	-3.502	1.856	1.00	0.00	O
ATOM	290	CB	ALAA	24142.439	-0.388	1.421	1.00	0.00	C
ATOM	291	H	ALAA	24142.948	-2.133	3.802	1.00	0.00	H
ATOM	292	HA	ALAA	24140.811	-1.667	1.890	1.00	0.00	H
ATOM	293	1HB	ALAA	24143.407	-0.591	0.986	1.00	0.00	H
ATOM	294	2HB	ALAA	24142.541	0.365	2.188	1.00	0.00	H
ATOM	295	3HB	ALAA	24141.767	-0.034	0.654	1.00	0.00	H
ATOM	296	N	GLU A	25141.926	-3.237	0.191	1.00	0.00	N
ATOM	297	CA	GLU A	25142.403	-4.388	-0.566	1.00	0.00	C
ATOM	298	C	GLU A	25142.632	-4.020	-2.029	1.00	0.00	C
ATOM	299	O	GLU A	25141.891	-3.223	-2.602	1.00	0.00	O
ATOM	300	CB	GLU A	25141.401	-5.540	-0.470	1.00	0.00	C
ATOM	301	CG	GLU A	25142.005	-6.899	-0.780	1.00	0.00	C
ATOM	302	CD	GLU A	25141.078	-7.776	-1.599	1.00	0.00	C
ATOM	303	OE1	GLU A	25141.583	-8.664	-2.319	1.00	0.00	O
ATOM	304	OE2	GLU A	25139.847	-7.577	-1.520	1.00	0.00	O
ATOM	305	H	GLU A	25141.181	-2.708	-0.163	1.00	0.00	H
ATOM	306	HA	GLU A	25143.341	-4.703	-0.135	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.998	-5.569	0.532	1.00	0.00	H

ATOM	308	2HB	GLU A	25140.596	-5.360	-1.167	1.00	0.00	H
ATOM	309	1HG	GLU A	25142.920	-6.755	-1.332	1.00	0.00	H
ATOM	310	2HG	GLU A	25142.223	-7.402	0.152	1.00	0.00	H
ATOM	311	N	VAL A	26143.664	-4.607	-2.627	1.00	0.00	N
ATOM	312	CA	VAL A	26143.992	-4.340	-4.022	1.00	0.00	C
ATOM	313	C	VAL A	26143.563	-5.497	-4.918	1.00	0.00	C
ATOM	314	O	VAL A	26143.381	-6.622	-4.450	1.00	0.00	O
ATOM	315	CB	VAL A	26145.500	-4.093	-4.208	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.793	-3.607	-5.619	1.00	0.00	C
ATOM	317	CG2	VAL A	26146.010	-3.097	-3.177	1.00	0.00	C
ATOM	318	H	VAL A	26144.220	-5.233	-2.117	1.00	0.00	H
ATOM	319	HA	VAL A	26143.462	-3.448	-4.325	1.00	0.00	H
ATOM	320	HB	VAL A	26146.019	-5.029	-4.060	1.00	0.00	H
ATOM	321	1HG1	VAL A	26145.913	-4.456	-6.276	1.00	0.00	H
ATOM	322	2HG1	VAL A	26146.700	-3.022	-5.618	1.00	0.00	H
ATOM	323	3HG1	VAL A	26144.972	-2.997	-5.968	1.00	0.00	H
ATOM	324	1HG2	VAL A	26146.053	-3.572	-2.209	1.00	0.00	H
ATOM	325	2HG2	VAL A	26145.341	-2.250	-3.133	1.00	0.00	H
ATOM	326	3HG2	VAL A	26146.998	-2.762	-3.457	1.00	0.00	H
ATOM	327	N	LYS A	27143.402	-5.215	-6.206	1.00	0.00	N
ATOM	328	CA	LYS A	27142.994	-6.233	-7.167	1.00	0.00	C
ATOM	329	C	LYS A	27144.201	-6.795	-7.911	1.00	0.00	C
ATOM	330	O	LYS A	27144.125	-7.090	-9.103	1.00	0.00	O
ATOM	331	CB	LYS A	27141.991	-5.650	-8.164	1.00	0.00	C
ATOM	332	CG	LYS A	27142.567	-4.539	-9.028	1.00	0.00	C
ATOM	333	CD	LYS A	27141.949	-4.536	-10.418	1.00	0.00	C
ATOM	334	CE	LYS A	27142.791	-5.328	-11.406	1.00	0.00	C
ATOM	335	NZ	LYS A	27141.989	-6.363	-12.115	1.00	0.00	N
ATOM	336	H	LYS A	27143.561	-4.300	-6.518	1.00	0.00	H
ATOM	337	HA	LYS A	27142.519	-7.033	-6.620	1.00	0.00	H
ATOM	338	1HB	LYS A	27141.647	-6.440	-8.815	1.00	0.00	H

ATOM	339	2HB	LYS A	27141.149	-5.252	-7.619	1.00	0.00	H
ATOM	340	1HG	LYS A	27142.369	-3.589	-8.556	1.00	0.00	H
ATOM	341	2HG	LYS A	27143.634	-4.683	-9.117	1.00	0.00	H
ATOM	342	1HD	LYS A	27140.966	-4.979	-10.364	1.00	0.00	H
ATOM	343	2HD	LYS A	27141.868	-3.516	-10.762	1.00	0.00	H
ATOM	344	1HE	LYS A	27143.204	-4.646	-12.134	1.00	0.00	H
ATOM	345	2HE	LYS A	27143.595	-5.812	-10.871	1.00	0.00	H
ATOM	346	1HZ	LYS A	27142.045	-7.269	-11.606	1.00	0.00	H
ATOM	347	2HZ	LYS A	27142.351	-6.497	-13.081	1.00	0.00	H
ATOM	348	3HZ	LYS A	27140.993	-6.068	-12.168	1.00	0.00	H
ATOM	349	N	GLU A	28145.314	-6.940	-7.199	1.00	0.00	N
ATOM	350	CA	GLU A	28146.537	-7.467	-7.793	1.00	0.00	C
ATOM	351	C	GLU A	28146.479	-8.988	-7.899	1.00	0.00	C
ATOM	352	O	GLU A	28145.509	-9.614	-7.472	1.00	0.00	O
ATOM	353	CB	GLU A	28147.753	-7.046	-6.964	1.00	0.00	C
ATOM	354	CG	GLU A	28148.886	-6.467	-7.797	1.00	0.00	C
ATOM	355	CD	GLU A	28150.212	-6.475	-7.064	1.00	0.00	C
ATOM	356	OE1	GLU A	28150.759	-5.379	-6.815	1.00	0.00	O
ATOM	357	OE2	GLU A	28150.704	-7.575	-6.738	1.00	0.00	O
ATOM	358	H	GLU A	28145.312	-6.687	-6.252	1.00	0.00	H
ATOM	359	HA	GLU A	28146.628	-7.052	-8.786	1.00	0.00	H
ATOM	360	1HB	GLU A	28147.445	-6.299	-6.248	1.00	0.00	H
ATOM	361	2HB	GLU A	28148.131	-7.908	-6.433	1.00	0.00	H
ATOM	362	1HG	GLU A	28148.987	-7.052	-8.699	1.00	0.00	H
ATOM	363	2HG	GLU A	28148.639	-5.448	-8.058	1.00	0.00	H
ATOM	364	N	ASN A	29147.525	-9.576	-8.471	1.00	0.00	N
ATOM	365	CA	ASN A	29147.594	-11.024	-8.632	1.00	0.00	C
ATOM	366	C	ASN A	29147.522	-11.726	-7.277	1.00	0.00	C
ATOM	367	O	ASN A	29146.628	-12.537	-7.037	1.00	0.00	O
ATOM	368	CB	ASN A	29148.882	-11.416	-9.358	1.00	0.00	C
ATOM	369	CG	ASN A	29148.671	-11.604	-10.847	1.00	0.00	C

ATOM	370	OD1 ASN A	29148.987	-12.657	-11.403	1.00	0.00	O
ATOM	371	ND2 ASN A	29148.135	-10.581	-11.504	1.00	0.00	N
ATOM	372	H ASN A	29148.269	-9.024	-8.791	1.00	0.00	H
ATOM	373	HA ASN A	29146.747	-11.331	-9.228	1.00	0.00	H
ATOM	374	1HB ASN A	29149.620	-10.641	-9.214	1.00	0.00	H
ATOM	375	2HB ASN A	29149.253	-12.343	-8.946	1.00	0.00	H
ATOM	376	1HD2 ASN A	29147.909	-9.774	-10.996	1.00	0.00	H
ATOM	377	2HD2 ASN A	29147.987	-10.675	-12.468	1.00	0.00	H
ATOM	378	N PRO A	30148.467	-11.421	-6.372	1.00	0.00	N
ATOM	379	CA PRO A	30148.507	-12.026	-5.039	1.00	0.00	C
ATOM	380	C PRO A	30147.460	-11.429	-4.099	1.00	0.00	C
ATOM	381	O PRO A	30147.579	-10.276	-3.682	1.00	0.00	O
ATOM	382	CB PRO A	30149.915	-11.691	-4.549	1.00	0.00	C
ATOM	383	CG PRO A	30150.256	-10.414	-5.236	1.00	0.00	C
ATOM	384	CD PRO A	30149.572	-10.463	-6.576	1.00	0.00	C
ATOM	385	HA PRO A	30148.384	-13.098	-5.085	1.00	0.00	H
ATOM	386	1HB PRO A	30149.908	-11.575	-3.475	1.00	0.00	H
ATOM	387	2HB PRO A	30150.595	-12.482	-4.827	1.00	0.00	H
ATOM	388	1HG PRO A	30149.888	-9.578	-4.658	1.00	0.00	H
ATOM	389	2HG PRO A	30151.326	-10.340	-5.363	1.00	0.00	H
ATOM	390	1HD PRO A	30149.191	-9.487	-6.840	1.00	0.00	H
ATOM	391	2HD PRO A	30150.254	-10.817	-7.334	1.00	0.00	H
ATOM	392	N PRO A	31146.417	-12.204	-3.751	1.00	0.00	N
ATOM	393	CA PRO A	31145.353	-11.735	-2.857	1.00	0.00	C
ATOM	394	C PRO A	31145.844	-11.540	-1.426	1.00	0.00	C
ATOM	395	O PRO A	31145.741	-12.443	-0.595	1.00	0.00	O
ATOM	396	CB PRO A	31144.313	-12.857	-2.917	1.00	0.00	C
ATOM	397	CG PRO A	31145.088	-14.071	-3.297	1.00	0.00	C
ATOM	398	CD PRO A	31146.191	-13.592	-4.199	1.00	0.00	C
ATOM	399	HA PRO A	31144.914	-10.815	-3.213	1.00	0.00	H
ATOM	400	1HB PRO A	31143.847	-12.973	-1.949	1.00	0.00	H

ATOM	401	2HB	PRO A	31143.565	-12.620	-3.658	1.00	0.00	H
ATOM	402	1HG	PRO A	31145.501	-14.535	-2.413	1.00	0.00	H
ATOM	403	2HG	PRO A	31144.449	-14.766	-3.823	1.00	0.00	H
ATOM	404	1HD	PRO A	31147.078	-14.192	-4.061	1.00	0.00	H
ATOM	405	2HD	PRO A	31145.872	-13.617	-5.230	1.00	0.00	H
ATOM	406	N	PHE A	32146.377	-10.356	-1.146	1.00	0.00	N
ATOM	407	CA	PHE A	32146.885	-10.041	0.185	1.00	0.00	C
ATOM	408	C	PHE A	32145.947	-9.083	0.912	1.00	0.00	C
ATOM	409	O	PHE A	32144.998	-8.562	0.324	1.00	0.00	O
ATOM	410	CB	PHE A	32148.283	-9.430	0.090	1.00	0.00	C
ATOM	411	CG	PHE A	32148.404	-8.366	-0.964	1.00	0.00	C
ATOM	412	CD1	PHE A	32147.687	-7.185	-0.859	1.00	0.00	C
ATOM	413	CD2	PHE A	32149.233	-8.548	-2.059	1.00	0.00	C
ATOM	414	CE1	PHE A	32147.796	-6.205	-1.827	1.00	0.00	C
ATOM	415	CE2	PHE A	32149.346	-7.572	-3.030	1.00	0.00	C
ATOM	416	CZ	PHE A	32148.626	-6.397	-2.914	1.00	0.00	C
ATOM	417	H	PHE A	32146.430	-9.677	-1.850	1.00	0.00	H
ATOM	418	HA	PHE A	32146.941	-10.963	0.744	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.540	-8.987	1.040	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.994	-10.210	-0.141	1.00	0.00	H
ATOM	421	HD1	PHE A	32147.038	-7.032	-0.010	1.00	0.00	H
ATOM	422	HD2	PHE A	32149.796	-9.465	-2.151	1.00	0.00	H
ATOM	423	HE1	PHE A	32147.232	-5.289	-1.734	1.00	0.00	H
ATOM	424	HE2	PHE A	32149.995	-7.724	-3.879	1.00	0.00	H
ATOM	425	HZ	PHE A	32148.712	-5.632	-3.672	1.00	0.00	H
ATOM	426	N	TYR A	33146.217	-8.856	2.193	1.00	0.00	N
ATOM	427	CA	TYR A	33145.397	-7.958	2.999	1.00	0.00	C
ATOM	428	C	TYR A	33146.269	-6.990	3.793	1.00	0.00	C
ATOM	429	O	TYR A	33147.270	-7.387	4.389	1.00	0.00	O
ATOM	430	CB	TYR A	33144.511	-8.763	3.952	1.00	0.00	C
ATOM	431	CG	TYR A	33143.249	-9.290	3.306	1.00	0.00	C

ATOM	432	CD1 TYR A	33142.903	-10.632	3.406	1.00	0.00	C
ATOM	433	CD2 TYR A	33142.405	-8.447	2.595	1.00	0.00	C
ATOM	434	CE1 TYR A	33141.751	-11.118	2.817	1.00	0.00	C
ATOM	435	CE2 TYR A	33141.251	-8.925	2.003	1.00	0.00	C
ATOM	436	CZ TYR A	33140.929	-10.261	2.116	1.00	0.00	C
ATOM	437	OH TYR A	33139.781	-10.740	1.529	1.00	0.00	O
ATOM	438	H TYR A	33146.987	-9.300	2.605	1.00	0.00	H
ATOM	439	HA TYR A	33144.769	-7.392	2.329	1.00	0.00	H
ATOM	440	1HB TYR A	33145.069	-9.608	4.325	1.00	0.00	H
ATOM	441	2HB TYR A	33144.222	-8.134	4.780	1.00	0.00	H
ATOM	442	HD1 TYR A	33143.549	-11.302	3.956	1.00	0.00	H
ATOM	443	HD2 TYR A	33142.661	-7.401	2.507	1.00	0.00	H
ATOM	444	HE1 TYR A	33141.500	-12.165	2.907	1.00	0.00	H
ATOM	445	HE2 TYR A	33140.609	-8.253	1.455	1.00	0.00	H
ATOM	446	HH TYR A	33139.736	-10.436	0.620	1.00	0.00	H
ATOM	447	N GLY A	34145.880	-5.719	3.796	1.00	0.00	N
ATOM	448	CA GLY A	34146.637	-4.715	4.519	1.00	0.00	C
ATOM	449	C GLY A	34145.778	-3.546	4.957	1.00	0.00	C
ATOM	450	O GLY A	34144.551	-3.643	4.984	1.00	0.00	O
ATOM	451	H GLY A	34145.074	-5.462	3.302	1.00	0.00	H
ATOM	452	1HA GLY A	34147.077	-5.172	5.393	1.00	0.00	H
ATOM	453	2HA GLY A	34147.427	-4.348	3.881	1.00	0.00	H
ATOM	454	N VAL A	35146.423	-2.435	5.301	1.00	0.00	N
ATOM	455	CA VAL A	35145.710	-1.242	5.740	1.00	0.00	C
ATOM	456	C VAL A	35146.363	0.022	5.187	1.00	0.00	C
ATOM	457	O VAL A	35147.577	0.070	4.991	1.00	0.00	O
ATOM	458	CB VAL A	35145.657	-1.154	7.279	1.00	0.00	C
ATOM	459	CG1 VAL A	35147.060	-1.060	7.861	1.00	0.00	C
ATOM	460	CG2 VAL A	35144.809	0.029	7.720	1.00	0.00	C
ATOM	461	H VAL A	35147.402	-2.420	5.259	1.00	0.00	H
ATOM	462	HA VAL A	35144.698	-1.304	5.370	1.00	0.00	H

ATOM	463	HB	VAL A	35145.199	-2.057	7.654	1.00	0.00	H
ATOM	464	1HG1	VAL A	35147.690	-1.812	7.406	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.020	-1.222	8.927	1.00	0.00	H
ATOM	466	3HG1	VAL A	35147.468	-0.080	7.660	1.00	0.00	H
ATOM	467	1HG2	VAL A	35143.784	-0.133	7.423	1.00	0.00	H
ATOM	468	2HG2	VAL A	35145.180	0.932	7.257	1.00	0.00	H
ATOM	469	3HG2	VAL A	35144.861	0.129	8.795	1.00	0.00	H
ATOM	470	N	ILE A	36145.548	1.042	4.939	1.00	0.00	N
ATOM	471	CA	ILE A	36146.046	2.306	4.409	1.00	0.00	C
ATOM	472	C	ILE A	36146.970	2.992	5.410	1.00	0.00	C
ATOM	473	O	ILE A	36146.688	3.027	6.607	1.00	0.00	O
ATOM	474	CB	ILE A	36144.891	3.262	4.051	1.00	0.00	C
ATOM	475	CG1	ILE A	36143.876	2.558	3.149	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.430	4.514	3.374	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.709	3.435	2.752	1.00	0.00	C
ATOM	478	H	ILE A	36144.590	0.943	5.117	1.00	0.00	H
ATOM	479	HA	ILE A	36146.603	2.093	3.508	1.00	0.00	H
ATOM	480	HB	ILE A	36144.404	3.561	4.967	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.369	2.234	2.246	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.482	1.695	3.667	1.00	0.00	H
ATOM	483	1HG2	ILE A	36146.162	4.235	2.630	1.00	0.00	H
ATOM	484	2HG2	ILE A	36145.893	5.152	4.112	1.00	0.00	H
ATOM	485	3HG2	ILE A	36144.618	5.044	2.898	1.00	0.00	H
ATOM	486	1HD1	ILE A	36142.535	3.343	1.690	1.00	0.00	H
ATOM	487	2HD1	ILE A	36142.935	4.464	2.992	1.00	0.00	H
ATOM	488	3HD1	ILE A	36141.826	3.126	3.290	1.00	0.00	H
ATOM	489	N	ARG A	37148.076	3.535	4.910	1.00	0.00	N
ATOM	490	CA	ARG A	37149.042	4.220	5.761	1.00	0.00	C
ATOM	491	C	ARG A	37149.240	5.664	5.308	1.00	0.00	C
ATOM	492	O	ARG A	37148.974	6.601	6.060	1.00	0.00	O
ATOM	493	CB	ARG A	37150.382	3.480	5.742	1.00	0.00	C

ATOM	494	CG	ARG A	37150.258	1.992	6.024	1.00	0.00	C
ATOM	495	CD	ARG A	37149.607	1.733	7.373	1.00	0.00	C
ATOM	496	NE	ARG A	37150.302	2.420	8.458	1.00	0.00	N
ATOM	497	CZ	ARG A	37149.765	2.653	9.653	1.00	0.00	C
ATOM	498	NH1	ARG A	37148.527	2.255	9.921	1.00	0.00	N
ATOM	499	NH2	ARG A	37150.467	3.285	10.584	1.00	0.00	N
ATOM	500	H	ARG A	37148.246	3.474	3.947	1.00	0.00	H
ATOM	501	HA	ARG A	37148.656	4.221	6.768	1.00	0.00	H
ATOM	502	1HB	ARG A	37150.835	3.605	4.769	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.030	3.914	6.489	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.657	1.537	5.251	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.245	1.553	6.020	1.00	0.00	H
ATOM	506	1HD	ARG A	37148.585	2.079	7.337	1.00	0.00	H
ATOM	507	2HD	ARG A	37149.620	0.670	7.565	1.00	0.00	H
ATOM	508	HE	ARG A	37151.219	2.724	8.288	1.00	0.00	H
ATOM	509	1HH1	ARG A	37147.992	1.778	9.224	1.00	0.00	H
ATOM	510	2HH1	ARG A	37148.129	2.432	10.820	1.00	0.00	H
ATOM	511	1HH2	ARG A	37151.400	3.585	10.387	1.00	0.00	H
ATOM	512	2HH2	ARG A	37150.063	3.460	11.482	1.00	0.00	H
ATOM	513	N	TRP A	38149.705	5.835	4.075	1.00	0.00	N
ATOM	514	CA	TRP A	38149.938	7.166	3.525	1.00	0.00	C
ATOM	515	C	TRP A	38149.254	7.323	2.169	1.00	0.00	C
ATOM	516	O	TRP A	38149.360	6.454	1.304	1.00	0.00	O
ATOM	517	CB	TRP A	38151.441	7.431	3.388	1.00	0.00	C
ATOM	518	CG	TRP A	38151.763	8.666	2.600	1.00	0.00	C
ATOM	519	CD1	TRP A	38151.926	9.931	3.086	1.00	0.00	C
ATOM	520	CD2	TRP A	38151.955	8.752	1.183	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.207	10.799	2.058	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.231	10.098	0.880	1.00	0.00	C
ATOM	523	CE3	TRP A	38151.921	7.821	0.141	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.471	10.535	-0.422	1.00	0.00	C

ATOM	525	CZ3 TRP A	38152.159	8.254	-1.149	1.00	0.00	C
ATOM	526	CH2 TRP A	38152.431	9.601	-1.420	1.00	0.00	C
ATOM	527	H TRP A	38149.898	5.049	3.523	1.00	0.00	H
ATOM	528	HA TRP A	38149.516	7.885	4.211	1.00	0.00	H
ATOM	529	1HB TRP A	38151.871	7.544	4.373	1.00	0.00	H
ATOM	530	2HB TRP A	38151.904	6.589	2.894	1.00	0.00	H
ATOM	531	HD1 TRP A	38151.842	10.198	4.129	1.00	0.00	H
ATOM	532	HE1 TRP A	38152.366	11.761	2.153	1.00	0.00	H
ATOM	533	HE3 TRP A	38151.713	6.779	0.331	1.00	0.00	H
ATOM	534	HZ2 TRP A	38152.679	11.570	-0.648	1.00	0.00	H
ATOM	535	HZ3 TRP A	38152.138	7.548	-1.966	1.00	0.00	H
ATOM	536	HH2 TRP A	38152.612	9.895	-2.444	1.00	0.00	H
ATOM	537	N ILE A	39148.559	8.442	1.993	1.00	0.00	N
ATOM	538	CA ILE A	39147.864	8.725	0.744	1.00	0.00	C
ATOM	539	C ILE A	39148.314	10.064	0.170	1.00	0.00	C
ATOM	540	O ILE A	39147.947	11.122	0.681	1.00	0.00	O
ATOM	541	CB ILE A	39146.337	8.750	0.942	1.00	0.00	C
ATOM	542	CG1 ILE A	39145.876	7.502	1.698	1.00	0.00	C
ATOM	543	CG2 ILE A	39145.630	8.855	-0.400	1.00	0.00	C
ATOM	544	CD1 ILE A	39144.499	7.639	2.309	1.00	0.00	C
ATOM	545	H ILE A	39148.519	9.097	2.721	1.00	0.00	H
ATOM	546	HA ILE A	39148.104	7.941	0.041	1.00	0.00	H
ATOM	547	HB ILE A	39146.085	9.626	1.522	1.00	0.00	H
ATOM	548	1HG1 ILE A	39145.854	6.665	1.016	1.00	0.00	H
ATOM	549	2HG1 ILE A	39146.575	7.294	2.494	1.00	0.00	H
ATOM	550	1HG2 ILE A	39146.098	9.626	-0.994	1.00	0.00	H
ATOM	551	2HG2 ILE A	39144.590	9.104	-0.243	1.00	0.00	H
ATOM	552	3HG2 ILE A	39145.699	7.909	-0.918	1.00	0.00	H
ATOM	553	1HD1 ILE A	39144.001	8.499	1.886	1.00	0.00	H
ATOM	554	2HD1 ILE A	39144.590	7.764	3.378	1.00	0.00	H
ATOM	555	3HD1 ILE A	39143.922	6.750	2.099	1.00	0.00	H

ATOM	556	N	GLY A	40149.115	10.011	-0.889	1.00	0.00	N
ATOM	557	CA	GLY A	40149.604	11.231	-1.504	1.00	0.00	C
ATOM	558	C	GLY A	40150.212	10.994	-2.873	1.00	0.00	C
ATOM	559	O	GLY A	40150.068	9.916	-3.447	1.00	0.00	O
ATOM	560	H	GLY A	40149.379	9.141	-1.252	1.00	0.00	H
ATOM	561	1HA	GLY A	40148.785	11.925	-1.603	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.353	11.667	-0.862	1.00	0.00	H
ATOM	563	N	GLN A	41150.892	12.010	-3.394	1.00	0.00	N
ATOM	564	CA	GLN A	41151.525	11.919	-4.703	1.00	0.00	C
ATOM	565	C	GLN A	41153.000	12.311	-4.618	1.00	0.00	C
ATOM	566	O	GLN A	41153.325	13.461	-4.321	1.00	0.00	O
ATOM	567	CB	GLN A	41150.799	12.825	-5.696	1.00	0.00	C
ATOM	568	CG	GLN A	41149.288	12.653	-5.685	1.00	0.00	C
ATOM	569	CD	GLN A	41148.551	13.969	-5.825	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.474	14.755	-4.881	1.00	0.00	O
ATOM	571	NE2	GLN A	41148.004	14.216	-7.009	1.00	0.00	N
ATOM	572	H	GLN A	41150.968	12.844	-2.886	1.00	0.00	H
ATOM	573	HA	GLN A	41151.451	10.897	-5.040	1.00	0.00	H
ATOM	574	1HB	GLN A	41151.023	13.853	-5.456	1.00	0.00	H
ATOM	575	2HB	GLN A	41151.158	12.610	-6.690	1.00	0.00	H
ATOM	576	1HG	GLN A	41149.005	12.010	-6.504	1.00	0.00	H
ATOM	577	2HG	GLN A	41148.999	12.192	-4.752	1.00	0.00	H
ATOM	578	1HE2	GLN A	41148.106	13.544	-7.715	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.522	15.061	-7.130	1.00	0.00	H
ATOM	580	N	PRO A	42153.917	11.361	-4.876	1.00	0.00	N
ATOM	581	CA	PRO A	42155.360	11.623	-4.822	1.00	0.00	C
ATOM	582	C	PRO A	42155.779	12.746	-5.766	1.00	0.00	C
ATOM	583	O	PRO A	42155.066	13.071	-6.715	1.00	0.00	O
ATOM	584	CB	PRO A	42155.986	10.295	-5.261	1.00	0.00	C
ATOM	585	CG	PRO A	42154.937	9.272	-5.000	1.00	0.00	C
ATOM	586	CD	PRO A	42153.626	9.962	-5.237	1.00	0.00	C

ATOM	587	HA	PRO A	42155.680	11.861	-3.819	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.239	10.344	-6.311	1.00	0.00	H
ATOM	589	2HB	PRO A	42156.877	10.105	-4.680	1.00	0.00	H
ATOM	590	1HG	PRO A	42155.053	8.442	-5.681	1.00	0.00	H
ATOM	591	2HG	PRO A	42155.002	8.931	-3.976	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.340	9.882	-6.276	1.00	0.00	H
ATOM	593	2HD	PRO A	42152.859	9.550	-4.598	1.00	0.00	H
ATOM	594	N	PRO A	43156.951	13.355	-5.515	1.00	0.00	N
ATOM	595	CA	PRO A	43157.466	14.446	-6.347	1.00	0.00	C
ATOM	596	C	PRO A	43157.941	13.958	-7.711	1.00	0.00	C
ATOM	597	O	PRO A	43159.115	13.636	-7.891	1.00	0.00	O
ATOM	598	CB	PRO A	43158.643	14.986	-5.535	1.00	0.00	C
ATOM	599	CG	PRO A	43159.098	13.830	-4.714	1.00	0.00	C
ATOM	600	CD	PRO A	43157.863	13.027	-4.403	1.00	0.00	C
ATOM	601	HA	PRO A	43156.729	15.225	-6.481	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.419	15.323	-6.207	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.312	15.805	-4.915	1.00	0.00	H
ATOM	604	1HG	PRO A	43159.800	13.233	-5.277	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.553	14.185	-3.800	1.00	0.00	H
ATOM	606	1HD	PRO A	43158.092	11.973	-4.391	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.442	13.334	-3.457	1.00	0.00	H
ATOM	608	N	GLY A	44157.022	13.906	-8.667	1.00	0.00	N
ATOM	609	CA	GLY A	44157.369	13.457	-10.002	1.00	0.00	C
ATOM	610	C	GLY A	44156.170	12.942	-10.771	1.00	0.00	C
ATOM	611	O	GLY A	44155.925	13.359	-11.903	1.00	0.00	O
ATOM	612	H	GLY A	44156.101	14.175	-8.467	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.804	14.281	-10.546	1.00	0.00	H
ATOM	614	2HA	GLY A	44158.100	12.664	-9.924	1.00	0.00	H
ATOM	615	N	LEU A	45155.420	12.034	-10.156	1.00	0.00	N
ATOM	616	CA	LEU A	45154.240	11.463	-10.793	1.00	0.00	C
ATOM	617	C	LEU A	45152.994	11.726	-9.956	1.00	0.00	C

ATOM	618	O	LEU A	45152.847	11.184	-8.860	1.00	0.00	O
ATOM	619	CB	LEU A	45154.422	9.959	-10.999	1.00	0.00	C
ATOM	620	CG	LEU A	45154.906	9.191	-9.766	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.533	7.718	-9.873	1.00	0.00	C
ATOM	622	CD2	LEU A	45156.411	9.354	-9.592	1.00	0.00	C
ATOM	623	H	LEU A	45155.664	11.743	-9.251	1.00	0.00	H
ATOM	624	HA	LEU A	45154.119	11.938	-11.754	1.00	0.00	H
ATOM	625	1HB	LEU A	45153.476	9.542	-11.310	1.00	0.00	H
ATOM	626	2HB	LEU A	45155.140	9.810	-11.791	1.00	0.00	H
ATOM	627	HG	LEU A	45154.421	9.594	-8.889	1.00	0.00	H
ATOM	628	1HD1	LEU A	45155.414	7.111	-9.728	1.00	0.00	H
ATOM	629	2HD1	LEU A	45154.117	7.521	-10.849	1.00	0.00	H
ATOM	630	3HD1	LEU A	45153.803	7.477	-9.114	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.770	10.126	-10.257	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.904	8.422	-9.824	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.626	9.631	-8.571	1.00	0.00	H
ATOM	634	N	ASN A	46152.096	12.558	-10.474	1.00	0.00	N
ATOM	635	CA	ASN A	46150.868	12.879	-9.761	1.00	0.00	C
ATOM	636	C	ASN A	46149.905	11.697	-9.796	1.00	0.00	C
ATOM	637	O	ASN A	46149.319	11.390	-10.834	1.00	0.00	O
ATOM	638	CB	ASN A	46150.205	14.113	-10.378	1.00	0.00	C
ATOM	639	CG	ASN A	46149.419	14.917	-9.361	1.00	0.00	C
ATOM	640	OD1	ASN A	46148.199	15.047	-9.464	1.00	0.00	O
ATOM	641	ND2	ASN A	46150.117	15.463	-8.372	1.00	0.00	N
ATOM	642	H	ASN A	46152.264	12.961	-11.350	1.00	0.00	H
ATOM	643	HA	ASN A	46151.123	13.092	-8.733	1.00	0.00	H
ATOM	644	1HB	ASN A	46150.967	14.749	-10.800	1.00	0.00	H
ATOM	645	2HB	ASN A	46149.530	13.797	-11.160	1.00	0.00	H
ATOM	646	1HD2	ASN A	46151.086	15.318	-8.353	1.00	0.00	H
ATOM	647	2HD2	ASN A	46149.634	15.989	-7.700	1.00	0.00	H
ATOM	648	N	GLU A	47149.747	11.040	-8.654	1.00	0.00	N

ATOM	649	CA	GLU A	47148.857	9.891	-8.546	1.00	0.00	C
ATOM	650	C	GLU A	47148.612	9.532	-7.084	1.00	0.00	C
ATOM	651	O	GLU A	47149.551	9.232	-6.346	1.00	0.00	O
ATOM	652	CB	GLU A	47149.445	8.687	-9.288	1.00	0.00	C
ATOM	653	CG	GLU A	47150.953	8.556	-9.150	1.00	0.00	C
ATOM	654	CD	GLU A	47151.556	7.633	-10.192	1.00	0.00	C
ATOM	655	OE1	GLU A	47151.850	6.467	-9.853	1.00	0.00	O
ATOM	656	OE2	GLU A	47151.731	8.076	-11.347	1.00	0.00	O
ATOM	657	H	GLU A	47150.243	11.335	-7.862	1.00	0.00	H
ATOM	658	HA	GLU A	47147.916	10.158	-9.000	1.00	0.00	H
ATOM	659	1HB	GLU A	47148.991	7.786	-8.902	1.00	0.00	H
ATOM	660	2HB	GLU A	47149.208	8.776	-10.338	1.00	0.00	H
ATOM	661	1HG	GLU A	47151.398	9.534	-9.258	1.00	0.00	H
ATOM	662	2HG	GLU A	47151.182	8.166	-8.169	1.00	0.00	H
ATOM	663	N	VAL A	48147.351	9.557	-6.671	1.00	0.00	N
ATOM	664	CA	VAL A	48146.997	9.226	-5.298	1.00	0.00	C
ATOM	665	C	VAL A	48147.343	7.775	-4.989	1.00	0.00	C
ATOM	666	O	VAL A	48146.591	6.861	-5.329	1.00	0.00	O
ATOM	667	CB	VAL A	48145.499	9.456	-5.029	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.192	9.299	-3.547	1.00	0.00	C
ATOM	669	CG2	VAL A	48145.072	10.828	-5.527	1.00	0.00	C
ATOM	670	H	VAL A	48146.643	9.799	-7.304	1.00	0.00	H
ATOM	671	HA	VAL A	48147.567	9.869	-4.641	1.00	0.00	H
ATOM	672	HB	VAL A	48144.938	8.708	-5.570	1.00	0.00	H
ATOM	673	1HG1	VAL A	48144.163	9.571	-3.362	1.00	0.00	H
ATOM	674	2HG1	VAL A	48145.843	9.943	-2.974	1.00	0.00	H
ATOM	675	3HG1	VAL A	48145.351	8.273	-3.252	1.00	0.00	H
ATOM	676	1HG2	VAL A	48144.130	11.099	-5.073	1.00	0.00	H
ATOM	677	2HG2	VAL A	48144.958	10.801	-6.601	1.00	0.00	H
ATOM	678	3HG2	VAL A	48145.822	11.558	-5.263	1.00	0.00	H
ATOM	679	N	LEU A	49148.487	7.569	-4.345	1.00	0.00	N

ATOM	680	CA	LEU A	49148.934	6.227	-3.994	1.00	0.00	C
ATOM	681	C	LEU A	49148.788	5.983	-2.498	1.00	0.00	C
ATOM	682	O	LEU A	49149.449	6.633	-1.687	1.00	0.00	O
ATOM	683	CB	LEU A	49150.390	6.023	-4.417	1.00	0.00	C
ATOM	684	CG	LEU A	49150.667	6.237	-5.906	1.00	0.00	C
ATOM	685	CD1	LEU A	49152.113	6.656	-6.125	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.352	4.974	-6.693	1.00	0.00	C
ATOM	687	H	LEU A	49149.045	8.336	-4.102	1.00	0.00	H
ATOM	688	HA	LEU A	49148.313	5.521	-4.524	1.00	0.00	H
ATOM	689	1HB	LEU A	49151.005	6.711	-3.855	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.680	5.015	-4.162	1.00	0.00	H
ATOM	691	HG	LEU A	49150.032	7.029	-6.275	1.00	0.00	H
ATOM	692	1HD1	LEU A	49152.177	7.734	-6.140	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.464	6.261	-7.067	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.725	6.271	-5.323	1.00	0.00	H
ATOM	695	1HD2	LEU A	49151.242	4.367	-6.770	1.00	0.00	H
ATOM	696	2HD2	LEU A	49150.012	5.241	-7.682	1.00	0.00	H
ATOM	697	3HD2	LEU A	49149.579	4.416	-6.185	1.00	0.00	H
ATOM	698	N	ALAA	50147.919	5.047	-2.139	1.00	0.00	N
ATOM	699	CA	ALAA	50147.689	4.724	-0.738	1.00	0.00	C
ATOM	700	C	ALAA	50148.600	3.591	-0.281	1.00	0.00	C
ATOM	701	O	ALAA	50148.489	2.461	-0.758	1.00	0.00	O
ATOM	702	CB	ALAA	50146.230	4.357	-0.514	1.00	0.00	C
ATOM	703	H	ALAA	50147.421	4.564	-2.831	1.00	0.00	H
ATOM	704	HA	ALAA	50147.909	5.608	-0.156	1.00	0.00	H
ATOM	705	1HB	ALAA	50145.901	4.754	0.435	1.00	0.00	H
ATOM	706	2HB	ALAA	50146.126	3.282	-0.509	1.00	0.00	H
ATOM	707	3HB	ALAA	50145.628	4.775	-1.307	1.00	0.00	H
ATOM	708	N	GLYA	51149.502	3.899	0.645	1.00	0.00	N
ATOM	709	CA	GLYA	51150.420	2.895	1.151	1.00	0.00	C
ATOM	710	C	GLYA	51149.722	1.838	1.983	1.00	0.00	C

ATOM	711	O	GLY A	51149.241	2.120	3.081	1.00	0.00	O
ATOM	712	H	GLY A	51149.545	4.816	0.988	1.00	0.00	H
ATOM	713	1HA	GLY A	51150.907	2.415	0.315	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.168	3.381	1.759	1.00	0.00	H
ATOM	715	N	LEU A	52149.667	0.617	1.461	1.00	0.00	N
ATOM	716	CA	LEU A	52149.023	-0.486	2.164	1.00	0.00	C
ATOM	717	C	LEU A	52150.052	-1.340	2.897	1.00	0.00	C
ATOM	718	O	LEU A	52151.062	-1.744	2.320	1.00	0.00	O
ATOM	719	CB	LEU A	52148.231	-1.352	1.183	1.00	0.00	C
ATOM	720	CG	LEU A	52146.974	-0.695	0.609	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.452	-1.490	-0.579	1.00	0.00	C
ATOM	722	CD2	LEU A	52145.903	-0.569	1.680	1.00	0.00	C
ATOM	723	H	LEU A	52150.068	0.453	0.582	1.00	0.00	H
ATOM	724	HA	LEU A	52148.342	-0.064	2.889	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.882	-1.616	0.362	1.00	0.00	H
ATOM	726	2HB	LEU A	52147.935	-2.258	1.692	1.00	0.00	H
ATOM	727	HG	LEU A	52147.222	0.298	0.262	1.00	0.00	H
ATOM	728	1HD1	LEU A	52145.685	-2.174	-0.246	1.00	0.00	H
ATOM	729	2HD1	LEU A	52147.263	-2.047	-1.023	1.00	0.00	H
ATOM	730	3HD1	LEU A	52146.037	-0.812	-1.311	1.00	0.00	H
ATOM	731	1HD2	LEU A	52145.344	0.343	1.526	1.00	0.00	H
ATOM	732	2HD2	LEU A	52146.368	-0.544	2.655	1.00	0.00	H
ATOM	733	3HD2	LEU A	52145.234	-1.414	1.622	1.00	0.00	H
ATOM	734	N	GLU A	53149.790	-1.612	4.171	1.00	0.00	N
ATOM	735	CA	GLU A	53150.694	-2.418	4.983	1.00	0.00	C
ATOM	736	C	GLU A	53150.200	-3.859	5.076	1.00	0.00	C
ATOM	737	O	GLU A	53149.205	-4.142	5.744	1.00	0.00	O
ATOM	738	CB	GLU A	53150.826	-1.819	6.384	1.00	0.00	C
ATOM	739	CG	GLU A	53151.783	-2.584	7.284	1.00	0.00	C
ATOM	740	CD	GLU A	53151.317	-2.629	8.726	1.00	0.00	C
ATOM	741	OE1	GLU A	53151.200	-1.550	9.345	1.00	0.00	O

ATOM	742	OE2	GLU A	53151.071	-3.742	9.236	1.00	0.00	O
ATOM	743	H	GLU A	53148.969	-1.262	4.575	1.00	0.00	H
ATOM	744	HA	GLU A	53151.662	-2.413	4.505	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.182	-0.804	6.297	1.00	0.00	H
ATOM	746	2HB	GLU A	53149.854	-1.812	6.853	1.00	0.00	H
ATOM	747	1HG	GLU A	53151.870	-3.597	6.919	1.00	0.00	H
ATOM	748	2HG	GLU A	53152.751	-2.105	7.248	1.00	0.00	H
ATOM	749	N	LEU A	54150.903	-4.765	4.405	1.00	0.00	N
ATOM	750	CA	LEU A	54150.537	-6.176	4.412	1.00	0.00	C
ATOM	751	C	LEU A	54150.705	-6.775	5.805	1.00	0.00	C
ATOM	752	O	LEU A	54151.577	-6.360	6.568	1.00	0.00	O
ATOM	753	CB	LEU A	54151.389	-6.950	3.404	1.00	0.00	C
ATOM	754	CG	LEU A	54151.447	-6.342	2.002	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.766	-6.680	1.327	1.00	0.00	C
ATOM	756	CD2	LEU A	54150.276	-6.829	1.162	1.00	0.00	C
ATOM	757	H	LEU A	54151.686	-4.477	3.891	1.00	0.00	H
ATOM	758	HA	LEU A	54149.498	-6.250	4.124	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.396	-7.013	3.790	1.00	0.00	H
ATOM	760	2HB	LEU A	54150.990	-7.951	3.321	1.00	0.00	H
ATOM	761	HG	LEU A	54151.378	-5.266	2.081	1.00	0.00	H
ATOM	762	1HD1	LEU A	54153.136	-7.620	1.710	1.00	0.00	H
ATOM	763	2HD1	LEU A	54153.485	-5.901	1.531	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.615	-6.761	0.261	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.455	-7.099	1.811	1.00	0.00	H
ATOM	766	2HD2	LEU A	54150.578	-7.692	0.589	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.962	-6.043	0.492	1.00	0.00	H
ATOM	768	N	GLU A	55149.864	-7.752	6.128	1.00	0.00	N
ATOM	769	CA	GLU A	55149.920	-8.408	7.429	1.00	0.00	C
ATOM	770	C	GLU A	55151.075	-9.402	7.489	1.00	0.00	C
ATOM	771	O	GLU A	55151.677	-9.606	8.543	1.00	0.00	O
ATOM	772	CB	GLU A	55148.600	-9.124	7.719	1.00	0.00	C

ATOM	773	CG	GLU A	55147.559	-8.237	8.381	1.00	0.00	C
ATOM	774	CD	GLU A	55146.145	-8.576	7.952	1.00	0.00	C
ATOM	775	OE1	GLU A	55145.281	-7.675	7.989	1.00	0.00	O
ATOM	776	OE2	GLU A	55145.902	-9.743	7.576	1.00	0.00	O
ATOM	777	H	GLU A	55149.191	-8.038	5.477	1.00	0.00	H
ATOM	778	HA	GLU A	55150.077	-7.646	8.178	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.191	-9.491	6.789	1.00	0.00	H
ATOM	780	2HB	GLU A	55148.794	-9.962	8.371	1.00	0.00	H
ATOM	781	1HG	GLU A	55147.631	-8.356	9.452	1.00	0.00	H
ATOM	782	2HG	GLU A	55147.762	-7.209	8.120	1.00	0.00	H
ATOM	783	N	ASP A	56151.380	-10.017	6.351	1.00	0.00	N
ATOM	784	CA	ASP A	56152.464	-10.989	6.275	1.00	0.00	C
ATOM	785	C	ASP A	56153.720	-10.358	5.682	1.00	0.00	C
ATOM	786	O	ASP A	56153.639	-9.461	4.844	1.00	0.00	O
ATOM	787	CB	ASP A	56152.038	-12.194	5.434	1.00	0.00	C
ATOM	788	CG	ASP A	56152.656	-13.489	5.924	1.00	0.00	C
ATOM	789	OD1	ASP A	56151.930	-14.502	5.999	1.00	0.00	O
ATOM	790	OD2	ASP A	56153.866	-13.489	6.233	1.00	0.00	O
ATOM	791	H	ASP A	56150.865	-9.811	5.544	1.00	0.00	H
ATOM	792	HA	ASP A	56152.682	-11.322	7.278	1.00	0.00	H
ATOM	793	1HB	ASP A	56150.963	-12.292	5.474	1.00	0.00	H
ATOM	794	2HB	ASP A	56152.343	-12.036	4.409	1.00	0.00	H
ATOM	795	N	GLU A	57154.880	-10.835	6.122	1.00	0.00	N
ATOM	796	CA	GLU A	57156.153	-10.318	5.635	1.00	0.00	C
ATOM	797	C	GLU A	57156.464	-10.862	4.244	1.00	0.00	C
ATOM	798	O	GLU A	57157.189	-11.845	4.098	1.00	0.00	O
ATOM	799	CB	GLU A	57157.281	-10.684	6.601	1.00	0.00	C
ATOM	800	CG	GLU A	57157.059	-10.172	8.016	1.00	0.00	C
ATOM	801	CD	GLU A	57156.643	-11.271	8.975	1.00	0.00	C
ATOM	802	OE1	GLU A	57155.525	-11.806	8.817	1.00	0.00	O
ATOM	803	OE2	GLU A	57157.435	-11.596	9.885	1.00	0.00	O

ATOM	804	H	GLU A	57154.880	-11.552	6.790	1.00	0.00	H
ATOM	805	HA	GLU A	57156.074	-9.242	5.579	1.00	0.00	H
ATOM	806	1HB	GLU A	57157.370	-11.760	6.641	1.00	0.00	H
ATOM	807	2HB	GLU A	57158.206	-10.268	6.231	1.00	0.00	H
ATOM	808	1HG	GLU A	57157.977	-9.732	8.374	1.00	0.00	H
ATOM	809	2HG	GLU A	57156.284	-9.419	7.995	1.00	0.00	H
ATOM	810	N	CYS A	58155.911	-10.214	3.224	1.00	0.00	N
ATOM	811	CA	CYS A	58156.129	-10.631	1.844	1.00	0.00	C
ATOM	812	C	CYS A	58157.505	-10.192	1.354	1.00	0.00	C
ATOM	813	O	CYS A	58157.859	-9.016	1.437	1.00	0.00	O
ATOM	814	CB	CYS A	58155.043	-10.051	0.935	1.00	0.00	C
ATOM	815	SG	CYS A	58153.516	-11.020	0.901	1.00	0.00	S
ATOM	816	H	CYS A	58155.341	-9.436	3.404	1.00	0.00	H
ATOM	817	HA	CYS A	58156.076	-11.709	1.812	1.00	0.00	H
ATOM	818	1HB	CYS A	58154.793	-9.057	1.275	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.420	-9.996	-0.075	1.00	0.00	H
ATOM	820	HG	CYS A	58153.511	-11.593	1.672	1.00	0.00	H
ATOM	821	N	ALAA	59158.278	-11.145	0.842	1.00	0.00	N
ATOM	822	CA	ALAA	59159.615	-10.857	0.338	1.00	0.00	C
ATOM	823	C	ALAA	59159.552	-10.057	-0.958	1.00	0.00	C
ATOM	824	O	ALAA	59159.080	-10.551	-1.981	1.00	0.00	O
ATOM	825	CB	ALAA	59160.388	-12.149	0.126	1.00	0.00	C
ATOM	826	H	ALAA	59157.939	-12.064	0.802	1.00	0.00	H
ATOM	827	HA	ALAA	59160.133	-10.274	1.085	1.00	0.00	H
ATOM	828	1HB	ALAA	59159.764	-12.860	-0.395	1.00	0.00	H
ATOM	829	2HB	ALAA	59160.677	-12.557	1.084	1.00	0.00	H
ATOM	830	3HB	ALAA	59161.272	-11.948	-0.460	1.00	0.00	H
ATOM	831	N	GLY A	60160.031	-8.818	-0.907	1.00	0.00	N
ATOM	832	CA	GLY A	60160.020	-7.970	-2.084	1.00	0.00	C
ATOM	833	C	GLY A	60159.553	-6.560	-1.778	1.00	0.00	C
ATOM	834	O	GLY A	60159.945	-5.608	-2.455	1.00	0.00	O

ATOM	835	H	GLY A	60160.396	-8.478	-0.063	1.00	0.00	H
ATOM	836	1HA	GLY A	60161.020	-7.926	-2.491	1.00	0.00	H
ATOM	837	2HA	GLY A	60159.362	-8.403	-2.821	1.00	0.00	H
ATOM	838	N	CYS A	61158.713	-6.425	-0.757	1.00	0.00	N
ATOM	839	CA	CYS A	61158.192	-5.122	-0.363	1.00	0.00	C
ATOM	840	C	CYS A	61159.189	-4.380	0.519	1.00	0.00	C
ATOM	841	O	CYS A	61160.222	-4.931	0.904	1.00	0.00	O
ATOM	842	CB	CYS A	61156.861	-5.283	0.375	1.00	0.00	C
ATOM	843	SG	CYS A	61155.608	-6.197	-0.553	1.00	0.00	S
ATOM	844	H	CYS A	61158.438	-7.221	-0.257	1.00	0.00	H
ATOM	845	HA	CYS A	61158.026	-4.545	-1.262	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.035	-5.812	1.301	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.460	-4.305	0.595	1.00	0.00	H
ATOM	848	HG	CYS A	61154.811	-5.662	-0.582	1.00	0.00	H
ATOM	849	N	THR A	62158.876	-3.128	0.835	1.00	0.00	N
ATOM	850	CA	THR A	62159.746	-2.310	1.673	1.00	0.00	C
ATOM	851	C	THR A	62159.171	-2.169	3.078	1.00	0.00	C
ATOM	852	O	THR A	62158.132	-2.748	3.397	1.00	0.00	O
ATOM	853	CB	THR A	62159.940	-0.929	1.047	1.00	0.00	C
ATOM	854	OG1	THR A	62158.694	-0.283	0.860	1.00	0.00	O
ATOM	855	CG2	THR A	62160.641	-0.973	-0.294	1.00	0.00	C
ATOM	856	H	THR A	62158.040	-2.744	0.498	1.00	0.00	H
ATOM	857	HA	THR A	62160.704	-2.805	1.737	1.00	0.00	H
ATOM	858	HB	THR A	62160.540	-0.325	1.712	1.00	0.00	H
ATOM	859	HG1	THR A	62158.840	0.602	0.518	1.00	0.00	H
ATOM	860	1HG2	THR A	62160.440	-1.919	-0.774	1.00	0.00	H
ATOM	861	2HG2	THR A	62161.705	-0.862	-0.148	1.00	0.00	H
ATOM	862	3HG2	THR A	62160.277	-0.169	-0.917	1.00	0.00	H
ATOM	863	N	ASP A	63159.853	-1.394	3.916	1.00	0.00	N
ATOM	864	CA	ASP A	63159.410	-1.175	5.289	1.00	0.00	C
ATOM	865	C	ASP A	63158.661	0.148	5.414	1.00	0.00	C

ATOM	866	O	ASP A	63158.703	0.800	6.457	1.00	0.00	O
ATOM	867	CB	ASP A	63160.606	-1.189	6.241	1.00	0.00	C
ATOM	868	CG	ASP A	63161.704	-0.240	5.805	1.00	0.00	C
ATOM	869	OD1	ASP A	63161.752	0.893	6.328	1.00	0.00	O
ATOM	870	OD2	ASP A	63162.517	-0.629	4.939	1.00	0.00	O
ATOM	871	H	ASP A	63160.674	-0.958	3.604	1.00	0.00	H
ATOM	872	HA	ASP A	63158.741	-1.980	5.553	1.00	0.00	H
ATOM	873	1HB	ASP A	63160.276	-0.899	7.227	1.00	0.00	H
ATOM	874	2HB	ASP A	63161.013	-2.189	6.282	1.00	0.00	H
ATOM	875	N	GLY A	64157.976	0.538	4.344	1.00	0.00	N
ATOM	876	CA	GLY A	64157.227	1.781	4.356	1.00	0.00	C
ATOM	877	C	GLY A	64157.980	2.918	3.692	1.00	0.00	C
ATOM	878	O	GLY A	64158.006	4.037	4.204	1.00	0.00	O
ATOM	879	H	GLY A	64157.978	-0.022	3.540	1.00	0.00	H
ATOM	880	1HA	GLY A	64156.292	1.631	3.836	1.00	0.00	H
ATOM	881	2HA	GLY A	64157.018	2.053	5.380	1.00	0.00	H
ATOM	882	N	THR A	65158.594	2.630	2.549	1.00	0.00	N
ATOM	883	CA	THR A	65159.351	3.636	1.814	1.00	0.00	C
ATOM	884	C	THR A	65159.077	3.536	0.317	1.00	0.00	C
ATOM	885	O	THR A	65159.346	2.511	-0.307	1.00	0.00	O
ATOM	886	CB	THR A	65160.848	3.475	2.081	1.00	0.00	C
ATOM	887	OG1	THR A	65161.266	2.148	1.810	1.00	0.00	O
ATOM	888	CG2	THR A	65161.239	3.795	3.508	1.00	0.00	C
ATOM	889	H	THR A	65158.536	1.720	2.192	1.00	0.00	H
ATOM	890	HA	THR A	65159.035	4.608	2.162	1.00	0.00	H
ATOM	891	HB	THR A	65161.394	4.143	1.431	1.00	0.00	H
ATOM	892	HG1	THR A	65161.056	1.927	0.900	1.00	0.00	H
ATOM	893	1HG2	THR A	65160.578	4.555	3.900	1.00	0.00	H
ATOM	894	2HG2	THR A	65162.256	4.158	3.530	1.00	0.00	H
ATOM	895	3HG2	THR A	65161.162	2.904	4.112	1.00	0.00	H
ATOM	896	N	PHE A	66158.540	4.610	-0.254	1.00	0.00	N

ATOM	897	CA	PHE A	66158.230	4.645	-1.678	1.00	0.00	C
ATOM	898	C	PHE A	66159.285	5.435	-2.446	1.00	0.00	C
ATOM	899	O	PHE A	66159.348	6.660	-2.351	1.00	0.00	O
ATOM	900	CB	PHE A	66156.848	5.261	-1.905	1.00	0.00	C
ATOM	901	CG	PHE A	66156.258	4.935	-3.248	1.00	0.00	C
ATOM	902	CD1	PHE A	66155.882	5.945	-4.118	1.00	0.00	C
ATOM	903	CD2	PHE A	66156.081	3.618	-3.638	1.00	0.00	C
ATOM	904	CE1	PHE A	66155.340	5.647	-5.354	1.00	0.00	C
ATOM	905	CE2	PHE A	66155.538	3.314	-4.873	1.00	0.00	C
ATOM	906	CZ	PHE A	66155.167	4.330	-5.732	1.00	0.00	C
ATOM	907	H	PHE A	66158.348	5.398	0.296	1.00	0.00	H
ATOM	908	HA	PHE A	66158.224	3.628	-2.040	1.00	0.00	H
ATOM	909	1HB	PHE A	66156.171	4.898	-1.148	1.00	0.00	H
ATOM	910	2HB	PHE A	66156.925	6.337	-1.827	1.00	0.00	H
ATOM	911	HD1	PHE A	66156.018	6.976	-3.824	1.00	0.00	H
ATOM	912	HD2	PHE A	66156.370	2.822	-2.968	1.00	0.00	H
ATOM	913	HE1	PHE A	66155.051	6.445	-6.023	1.00	0.00	H
ATOM	914	HE2	PHE A	66155.404	2.283	-5.166	1.00	0.00	H
ATOM	915	HZ	PHE A	66154.743	4.096	-6.696	1.00	0.00	H
ATOM	916	N	ARG A	67160.111	4.724	-3.207	1.00	0.00	N
ATOM	917	CA	ARG A	67161.164	5.358	-3.991	1.00	0.00	C
ATOM	918	C	ARG A	67162.128	6.124	-3.090	1.00	0.00	C
ATOM	919	O	ARG A	67162.576	7.219	-3.430	1.00	0.00	O
ATOM	920	CB	ARG A	67160.557	6.304	-5.029	1.00	0.00	C
ATOM	921	CG	ARG A	67159.739	5.593	-6.096	1.00	0.00	C
ATOM	922	CD	ARG A	67160.131	6.041	-7.495	1.00	0.00	C
ATOM	923	NE	ARG A	67161.016	5.080	-8.150	1.00	0.00	N
ATOM	924	CZ	ARG A	67161.773	5.370	-9.206	1.00	0.00	C
ATOM	925	NH1	ARG A	67161.755	6.590	-9.731	1.00	0.00	N
ATOM	926	NH2	ARG A	67162.549	4.437	-9.741	1.00	0.00	N
ATOM	927	H	ARG A	67160.011	3.750	-3.241	1.00	0.00	H

ATOM	928	HA	ARG A	67161.711	4.580	-4.503	1.00	0.00	H
ATOM	929	1HB	ARG A	67159.912	7.008	-4.523	1.00	0.00	H
ATOM	930	2HB	ARG A	67161.353	6.846	-5.516	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.904	4.529	-6.012	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.693	5.810	-5.938	1.00	0.00	H
ATOM	933	1HD	ARG A	67159.236	6.154	-8.088	1.00	0.00	H
ATOM	934	2HD	ARG A	67160.638	6.994	-7.425	1.00	0.00	H
ATOM	935	HE	ARG A	67161.048	4.172	-7.783	1.00	0.00	H
ATOM	936	1HH1	ARG A	67161.172	7.297	-9.333	1.00	0.00	H
ATOM	937	2HH1	ARG A	67162.325	6.801	-10.524	1.00	0.00	H
ATOM	938	1HH2	ARG A	67162.566	3.516	-9.351	1.00	0.00	H
ATOM	939	2HH2	ARG A	67163.117	4.653	-10.535	1.00	0.00	H
ATOM	940	N	GLY A	68162.443	5.540	-1.939	1.00	0.00	N
ATOM	941	CA	GLY A	68163.351	6.182	-1.006	1.00	0.00	C
ATOM	942	C	GLY A	68162.706	7.342	-0.275	1.00	0.00	C
ATOM	943	O	GLY A	68163.385	8.287	0.127	1.00	0.00	O
ATOM	944	H	GLY A	68162.055	4.667	-1.721	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.679	5.452	-0.281	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.210	6.546	-1.550	1.00	0.00	H
ATOM	947	N	THR A	69161.389	7.272	-0.102	1.00	0.00	N
ATOM	948	CA	THR A	69160.651	8.325	0.585	1.00	0.00	C
ATOM	949	C	THR A	69159.735	7.739	1.654	1.00	0.00	C
ATOM	950	O	THR A	69158.604	7.347	1.369	1.00	0.00	O
ATOM	951	CB	THR A	69159.829	9.137	-0.417	1.00	0.00	C
ATOM	952	OG1	THR A	69160.590	9.421	-1.578	1.00	0.00	O
ATOM	953	CG2	THR A	69159.336	10.454	0.141	1.00	0.00	C
ATOM	954	H	THR A	69160.902	6.493	-0.445	1.00	0.00	H
ATOM	955	HA	THR A	69161.368	8.976	1.061	1.00	0.00	H
ATOM	956	HB	THR A	69158.965	8.558	-0.711	1.00	0.00	H
ATOM	957	HG1	THR A	69161.292	10.038	-1.358	1.00	0.00	H
ATOM	958	1HG2	THR A	69159.985	11.252	-0.190	1.00	0.00	H

ATOM	959	2HG2	THR	A	69159.340	10.412	1.220	1.00	0.00	H
ATOM	960	3HG2	THR	A	69158.331	10.639	-0.208	1.00	0.00	H
ATOM	961	N	ARG	A	70160.232	7.682	2.886	1.00	0.00	N
ATOM	962	CA	ARG	A	70159.457	7.143	3.998	1.00	0.00	C
ATOM	963	C	ARG	A	70158.310	8.077	4.365	1.00	0.00	C
ATOM	964	O	ARG	A	70158.529	9.234	4.725	1.00	0.00	O
ATOM	965	CB	ARG	A	70160.359	6.919	5.213	1.00	0.00	C
ATOM	966	CG	ARG	A	70159.662	6.210	6.364	1.00	0.00	C
ATOM	967	CD	ARG	A	70159.925	6.903	7.691	1.00	0.00	C
ATOM	968	NE	ARG	A	70159.851	5.977	8.819	1.00	0.00	N
ATOM	969	CZ	ARG	A	70160.254	6.275	10.051	1.00	0.00	C
ATOM	970	NH1	ARG	A	70160.761	7.472	10.320	1.00	0.00	N
ATOM	971	NH2	ARG	A	70160.151	5.374	11.018	1.00	0.00	N
ATOM	972	H	ARG	A	70161.141	8.009	3.050	1.00	0.00	H
ATOM	973	HA	ARG	A	70159.048	6.193	3.686	1.00	0.00	H
ATOM	974	1HB	ARG	A	70161.208	6.324	4.913	1.00	0.00	H
ATOM	975	2HB	ARG	A	70160.709	7.878	5.567	1.00	0.00	H
ATOM	976	1HG	ARG	A	70158.599	6.203	6.178	1.00	0.00	H
ATOM	977	2HG	ARG	A	70160.026	5.194	6.421	1.00	0.00	H
ATOM	978	1HD	ARG	A	70160.912	7.343	7.663	1.00	0.00	H
ATOM	979	2HD	ARG	A	70159.189	7.682	7.827	1.00	0.00	H
ATOM	980	HE	ARG	A	70159.482	5.085	8.647	1.00	0.00	H
ATOM	981	1HH1	ARG	A	70160.841	8.157	9.595	1.00	0.00	H
ATOM	982	2HH1	ARG	A	70161.062	7.690	11.248	1.00	0.00	H
ATOM	983	1HH2	ARG	A	70159.771	4.470	10.820	1.00	0.00	H
ATOM	984	2HH2	ARG	A	70160.454	5.598	11.945	1.00	0.00	H
ATOM	985	N	TYR	A	71157.086	7.567	4.275	1.00	0.00	N
ATOM	986	CA	TYR	A	71155.903	8.356	4.599	1.00	0.00	C
ATOM	987	C	TYR	A	71155.381	8.004	5.988	1.00	0.00	C
ATOM	988	O	TYR	A	71154.877	8.865	6.710	1.00	0.00	O
ATOM	989	CB	TYR	A	71154.808	8.125	3.556	1.00	0.00	C

ATOM	990	CG TYR A	71155.153	8.667	2.187	1.00	0.00	C
ATOM	991	CD1 TYR A	71155.218	7.826	1.083	1.00	0.00	C
ATOM	992	CD2 TYR A	71155.413	10.018	1.998	1.00	0.00	C
ATOM	993	CE1 TYR A	71155.533	8.316	-0.170	1.00	0.00	C
ATOM	994	CE2 TYR A	71155.727	10.517	0.748	1.00	0.00	C
ATOM	995	CZ TYR A	71155.786	9.662	-0.332	1.00	0.00	C
ATOM	996	OH TYR A	71156.099	10.155	-1.578	1.00	0.00	O
ATOM	997	H TYR A	71156.976	6.638	3.983	1.00	0.00	H
ATOM	998	HA TYR A	71156.187	9.397	4.587	1.00	0.00	H
ATOM	999	1HB TYR A	71154.633	7.064	3.458	1.00	0.00	H
ATOM	1000	2HB TYR A	71153.901	8.607	3.886	1.00	0.00	H
ATOM	1001	HD1 TYR A	71155.019	6.773	1.213	1.00	0.00	H
ATOM	1002	HD2 TYR A	71155.367	10.685	2.846	1.00	0.00	H
ATOM	1003	HE1 TYR A	71155.578	7.646	-1.016	1.00	0.00	H
ATOM	1004	HE2 TYR A	71155.926	11.571	0.622	1.00	0.00	H
ATOM	1005	HH TYR A	71155.373	9.983	-2.182	1.00	0.00	H
ATOM	1006	N PHE A	72155.504	6.733	6.357	1.00	0.00	N
ATOM	1007	CA PHE A	72155.045	6.266	7.659	1.00	0.00	C
ATOM	1008	C PHE A	72156.020	5.251	8.248	1.00	0.00	C
ATOM	1009	O PHE A	72157.052	4.949	7.649	1.00	0.00	O
ATOM	1010	CB PHE A	72153.653	5.642	7.538	1.00	0.00	C
ATOM	1011	CG PHE A	72153.543	4.631	6.433	1.00	0.00	C
ATOM	1012	CD1 PHE A	72153.294	5.033	5.130	1.00	0.00	C
ATOM	1013	CD2 PHE A	72153.689	3.278	6.696	1.00	0.00	C
ATOM	1014	CE1 PHE A	72153.193	4.104	4.111	1.00	0.00	C
ATOM	1015	CE2 PHE A	72153.588	2.345	5.682	1.00	0.00	C
ATOM	1016	CZ PHE A	72153.340	2.759	4.388	1.00	0.00	C
ATOM	1017	H PHE A	72155.914	6.094	5.737	1.00	0.00	H
ATOM	1018	HA PHE A	72154.990	7.120	8.317	1.00	0.00	H
ATOM	1019	1HB PHE A	72153.406	5.147	8.465	1.00	0.00	H
ATOM	1020	2HB PHE A	72152.931	6.422	7.349	1.00	0.00	H

ATOM	1021	HD1 PHE A	72153.179	6.084	4.913	1.00	0.00	H
ATOM	1022	HD2 PHE A	72153.884	2.954	7.708	1.00	0.00	H
ATOM	1023	HE1 PHE A	72152.997	4.431	3.101	1.00	0.00	H
ATOM	1024	HE2 PHE A	72153.705	1.294	5.901	1.00	0.00	H
ATOM	1025	HZ PHE A	72153.262	2.032	3.593	1.00	0.00	H
ATOM	1026	N THR A	73155.687	4.731	9.424	1.00	0.00	N
ATOM	1027	CA THR A	73156.534	3.750	10.094	1.00	0.00	C
ATOM	1028	C THR A	73155.833	2.399	10.188	1.00	0.00	C
ATOM	1029	O THR A	73154.813	2.263	10.862	1.00	0.00	O
ATOM	1030	CB THR A	73156.909	4.241	11.493	1.00	0.00	C
ATOM	1031	OG1 THRA	73157.700	3.278	12.167	1.00	0.00	O
ATOM	1032	CG2 THRA	73155.709	4.539	12.365	1.00	0.00	C
ATOM	1033	H THR A	73154.851	5.012	9.852	1.00	0.00	H
ATOM	1034	HA THR A	73157.434	3.636	9.510	1.00	0.00	H
ATOM	1035	HB THR A	73157.486	5.150	11.401	1.00	0.00	H
ATOM	1036	HG1 THRA	73158.049	3.660	12.976	1.00	0.00	H
ATOM	1037	1HG2 THRA	73155.202	3.617	12.608	1.00	0.00	H
ATOM	1038	2HG2 THRA	73155.032	5.192	11.834	1.00	0.00	H
ATOM	1039	3HG2 THRA	73156.035	5.021	13.274	1.00	0.00	H
ATOM	1040	N CYS A	74156.388	1.402	9.505	1.00	0.00	N
ATOM	1041	CA CYS A	74155.816	0.060	9.512	1.00	0.00	C
ATOM	1042	C CYS A	74156.913	-0.999	9.554	1.00	0.00	C
ATOM	1043	O CYS A	74158.096	-0.687	9.422	1.00	0.00	O
ATOM	1044	CB CYS A	74154.939	-0.148	8.276	1.00	0.00	C
ATOM	1045	SG CYS A	74153.237	0.427	8.475	1.00	0.00	S
ATOM	1046	H CYS A	74157.201	1.572	8.985	1.00	0.00	H
ATOM	1047	HA CYS A	74155.205	-0.035	10.396	1.00	0.00	H
ATOM	1048	1HB CYS A	74155.370	0.387	7.443	1.00	0.00	H
ATOM	1049	2HB CYS A	74154.905	-1.202	8.042	1.00	0.00	H
ATOM	1050	HG CYS A	74152.753	0.204	7.676	1.00	0.00	H
ATOM	1051	N ALA A	75156.512	-2.252	9.739	1.00	0.00	N

ATOM	1052	CA	ALAA	75157.461	-3.357	9.799	1.00	0.00	C
ATOM	1053	C	ALAA	75158.197	-3.521	8.474	1.00	0.00	C
ATOM	1054	O	ALAA	75157.960	-2.774	7.524	1.00	0.00	O
ATOM	1055	CB	ALAA	75156.745	-4.647	10.170	1.00	0.00	C
ATOM	1056	H	ALAA	75155.554	-2.438	9.837	1.00	0.00	H
ATOM	1057	HA	ALAA	75158.180	-3.137	10.574	1.00	0.00	H
ATOM	1058	1HB	ALAA	75156.801	-4.796	11.238	1.00	0.00	H
ATOM	1059	2HB	ALAA	75157.215	-5.478	9.665	1.00	0.00	H
ATOM	1060	3HB	ALAA	75155.709	-4.583	9.869	1.00	0.00	H
ATOM	1061	N	LEUA	76159.091	-4.502	8.416	1.00	0.00	N
ATOM	1062	CA	LEUA	76159.862	-4.764	7.206	1.00	0.00	C
ATOM	1063	C	LEUA	76159.161	-5.793	6.326	1.00	0.00	C
ATOM	1064	O	LEUA	76158.560	-6.745	6.825	1.00	0.00	O
ATOM	1065	CB	LEUA	76161.265	-5.256	7.566	1.00	0.00	C
ATOM	1066	CG	LEUA	76162.272	-4.153	7.899	1.00	0.00	C
ATOM	1067	CD1	LEUA	76163.265	-4.636	8.945	1.00	0.00	C
ATOM	1068	CD2	LEUA	76162.999	-3.700	6.642	1.00	0.00	C
ATOM	1069	H	LEUA	76159.236	-5.064	9.206	1.00	0.00	H
ATOM	1070	HA	LEUA	76159.945	-3.836	6.659	1.00	0.00	H
ATOM	1071	1HB	LEUA	76161.185	-5.912	8.421	1.00	0.00	H
ATOM	1072	2HB	LEUA	76161.650	-5.823	6.733	1.00	0.00	H
ATOM	1073	HG	LEUA	76161.745	-3.304	8.307	1.00	0.00	H
ATOM	1074	1HD1	LEUA	76164.124	-5.069	8.454	1.00	0.00	H
ATOM	1075	2HD1	LEUA	76162.795	-5.380	9.572	1.00	0.00	H
ATOM	1076	3HD1	LEUA	76163.582	-3.801	9.554	1.00	0.00	H
ATOM	1077	1HD2	LEUA	76162.395	-3.926	5.775	1.00	0.00	H
ATOM	1078	2HD2	LEUA	76163.945	-4.216	6.567	1.00	0.00	H
ATOM	1079	3HD2	LEUA	76163.173	-2.636	6.690	1.00	0.00	H
ATOM	1080	N	LYSA	77159.241	-5.595	5.014	1.00	0.00	N
ATOM	1081	CA	LYSA	77158.615	-6.506	4.063	1.00	0.00	C
ATOM	1082	C	LYSA	77157.102	-6.545	4.261	1.00	0.00	C

ATOM	1083	O	LYS A	77156.473	-7.591	4.107	1.00	0.00	O
ATOM	1084	CB	LYS A	77159.196	-7.914	4.213	1.00	0.00	C
ATOM	1085	CG	LYS A	77160.695	-7.980	3.971	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.038	-7.712	2.515	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.514	-7.398	2.339	1.00	0.00	C
ATOM	1088	NZ	LYS A	77163.360	-8.619	2.449	1.00	0.00	N
ATOM	1089	H	LYS A	77159.734	-4.817	4.677	1.00	0.00	H
ATOM	1090	HA	LYS A	77158.826	-6.143	3.069	1.00	0.00	H
ATOM	1091	1HB	LYS A	77158.998	-8.268	5.213	1.00	0.00	H
ATOM	1092	2HB	LYS A	77158.709	-8.569	3.505	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.183	-7.239	4.587	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.050	-8.965	4.240	1.00	0.00	H
ATOM	1095	1HD	LYS A	77160.794	-8.586	1.931	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.456	-6.871	2.167	1.00	0.00	H
ATOM	1097	1HE	LYS A	77162.662	-6.956	1.364	1.00	0.00	H
ATOM	1098	2HE	LYS A	77162.813	-6.693	3.101	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77162.813	-9.459	2.167	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77163.682	-8.743	3.430	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77164.191	-8.536	1.831	1.00	0.00	H
ATOM	1102	N	LYS A	78156.526	-5.398	4.602	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.087	-5.300	4.821	1.00	0.00	C
ATOM	1104	C	LYS A	78154.565	-3.928	4.407	1.00	0.00	C
ATOM	1105	O	LYS A	78153.672	-3.373	5.047	1.00	0.00	O
ATOM	1106	CB	LYS A	78154.754	-5.564	6.291	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.276	-6.897	6.803	1.00	0.00	C
ATOM	1108	CD	LYS A	78155.037	-7.051	8.296	1.00	0.00	C
ATOM	1109	CE	LYS A	78153.738	-7.786	8.580	1.00	0.00	C
ATOM	1110	NZ	LYS A	78153.489	-7.930	10.040	1.00	0.00	N
ATOM	1111	H	LYS A	78157.081	-4.597	4.709	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.609	-6.053	4.212	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.187	-4.778	6.892	1.00	0.00	H

ATOM	1114	2HB	LYS A	78153.682	-5.551	6.413	1.00	0.00	H
ATOM	1115	1HG	LYS A	78154.768	-7.695	6.283	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.337	-6.956	6.609	1.00	0.00	H
ATOM	1117	1HD	LYS A	78155.857	-7.608	8.726	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.992	-6.070	8.746	1.00	0.00	H
ATOM	1119	1HE	LYS A	78152.923	-7.233	8.138	1.00	0.00	H
ATOM	1120	2HE	LYS A	78153.790	-8.768	8.132	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78152.472	-7.847	10.240	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78153.995	-7.189	10.566	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78153.820	-8.860	10.369	1.00	0.00	H
ATOM	1124	N	ALAA	79155.130	-3.385	3.333	1.00	0.00	N
ATOM	1125	CA	ALAA	79154.722	-2.078	2.834	1.00	0.00	C
ATOM	1126	C	ALAA	79154.661	-2.066	1.311	1.00	0.00	C
ATOM	1127	O	ALAA	79155.692	-2.045	0.638	1.00	0.00	O
ATOM	1128	CB	ALAA	79155.673	-1.002	3.334	1.00	0.00	C
ATOM	1129	H	ALAA	79155.838	-3.876	2.865	1.00	0.00	H
ATOM	1130	HA	ALAA	79153.737	-1.864	3.225	1.00	0.00	H
ATOM	1131	1HB	ALAA	79156.179	-1.352	4.222	1.00	0.00	H
ATOM	1132	2HB	ALAA	79155.115	-0.107	3.567	1.00	0.00	H
ATOM	1133	3HB	ALAA	79156.402	-0.782	2.568	1.00	0.00	H
ATOM	1134	N	LEU A	80153.445	-2.077	0.772	1.00	0.00	N
ATOM	1135	CA	LEU A	80153.250	-2.068	-0.674	1.00	0.00	C
ATOM	1136	C	LEU A	80152.372	-0.893	-1.095	1.00	0.00	C
ATOM	1137	O	LEU A	80151.191	-0.835	-0.752	1.00	0.00	O
ATOM	1138	CB	LEU A	80152.617	-3.383	-1.131	1.00	0.00	C
ATOM	1139	CG	LEU A	80152.301	-3.464	-2.626	1.00	0.00	C
ATOM	1140	CD1	LEU A	80153.582	-3.431	-3.445	1.00	0.00	C
ATOM	1141	CD2	LEU A	80151.501	-4.721	-2.933	1.00	0.00	C
ATOM	1142	H	LEU A	80152.662	-2.093	1.360	1.00	0.00	H
ATOM	1143	HA	LEU A	80154.218	-1.962	-1.139	1.00	0.00	H
ATOM	1144	1HB	LEU A	80153.294	-4.189	-0.883	1.00	0.00	H

ATOM	1145	2HB	LEU A	80151.698	-3.526	-0.585	1.00	0.00	H
ATOM	1146	HG	LEU A	80151.704	-2.608	-2.907	1.00	0.00	H
ATOM	1147	1HD1	LEU A	80153.460	-4.038	-4.330	1.00	0.00	H
ATOM	1148	2HD1	LEU A	80154.399	-3.819	-2.852	1.00	0.00	H
ATOM	1149	3HD1	LEU A	80153.799	-2.413	-3.734	1.00	0.00	H
ATOM	1150	1HD2	LEU A	80151.751	-5.074	-3.924	1.00	0.00	H
ATOM	1151	2HD2	LEU A	80150.446	-4.496	-2.887	1.00	0.00	H
ATOM	1152	3HD2	LEU A	80151.739	-5.485	-2.209	1.00	0.00	H
ATOM	1153	N	PHE A	81152.956	0.039	-1.839	1.00	0.00	N
ATOM	1154	CA	PHE A	81152.227	1.212	-2.307	1.00	0.00	C
ATOM	1155	C	PHE A	81151.468	0.904	-3.594	1.00	0.00	C
ATOM	1156	O	PHE A	81151.964	0.183	-4.460	1.00	0.00	O
ATOM	1157	CB	PHE A	81153.188	2.379	-2.536	1.00	0.00	C
ATOM	1158	CG	PHE A	81153.792	2.916	-1.270	1.00	0.00	C
ATOM	1159	CD1	PHE A	81154.989	2.410	-0.788	1.00	0.00	C
ATOM	1160	CD2	PHE A	81153.164	3.928	-0.561	1.00	0.00	C
ATOM	1161	CE1	PHE A	81155.547	2.902	0.377	1.00	0.00	C
ATOM	1162	CE2	PHE A	81153.717	4.425	0.603	1.00	0.00	C
ATOM	1163	CZ	PHE A	81154.910	3.911	1.073	1.00	0.00	C
ATOM	1164	H	PHE A	81153.900	-0.064	-2.079	1.00	0.00	H
ATOM	1165	HA	PHE A	81151.516	1.487	-1.543	1.00	0.00	H
ATOM	1166	1HB	PHE A	81153.995	2.052	-3.175	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.657	3.185	-3.020	1.00	0.00	H
ATOM	1168	HD1	PHE A	81155.488	1.622	-1.332	1.00	0.00	H
ATOM	1169	HD2	PHE A	81152.231	4.330	-0.928	1.00	0.00	H
ATOM	1170	HE1	PHE A	81156.480	2.499	0.742	1.00	0.00	H
ATOM	1171	HE2	PHE A	81153.216	5.213	1.146	1.00	0.00	H
ATOM	1172	HZ	PHE A	81155.344	4.297	1.983	1.00	0.00	H
ATOM	1173	N	VAL A	82150.265	1.454	-3.713	1.00	0.00	N
ATOM	1174	CA	VAL A	82149.439	1.238	-4.894	1.00	0.00	C
ATOM	1175	C	VAL A	82148.475	2.400	-5.112	1.00	0.00	C

ATOM 1176 O VAL A 82148.288 3.238 -4.230 1.00 0.00 O
 ATOM 1177 CB VAL A 82148.632 -0.069 -4.784 1.00 0.00 C
 ATOM 1178 CG1 VAL A 82149.555 -1.276 -4.862 1.00 0.00 C
 ATOM 1179 CG2 VAL A 82147.821 -0.090 -3.498 1.00 0.00 C
 ATOM 1180 H VAL A 82149.925 2.020 -2.988 1.00 0.00 H
 ATOM 1181 HA VAL A 82150.095 1.161 -5.750 1.00 0.00 H
 ATOM 1182 HB VAL A 82147.946 -0.116 -5.618 1.00 0.00 H
 ATOM 1183 1HG1 VAL A 82150.262 -1.240 -4.048 1.00 0.00 H
 ATOM 1184 2HG1 VAL A 82150.086 -1.262 -5.802 1.00 0.00 H
 ATOM 1185 3HG1 VAL A 82148.970 -2.181 -4.792 1.00 0.00 H
 ATOM 1186 1HG2 VAL A 82147.469 0.907 -3.279 1.00 0.00 H
 ATOM 1187 2HG2 VAL A 82148.442 -0.439 -2.686 1.00 0.00 H
 ATOM 1188 3HG2 VAL A 82146.976 -0.752 -3.616 1.00 0.00 H
 ATOM 1189 N LYS A 83147.867 2.443 -6.292 1.00 0.00 N
 ATOM 1190 CA LYS A 83146.922 3.502 -6.627 1.00 0.00 C
 ATOM 1191 C LYS A 83145.691 3.437 -5.732 1.00 0.00 C
 ATOM 1192 O LYS A 83145.092 2.376 -5.556 1.00 0.00 O
 ATOM 1193 CB LYS A 83146.505 3.398 -8.096 1.00 0.00 C
 ATOM 1194 CG LYS A 83147.637 3.674 -9.071 1.00 0.00 C
 ATOM 1195 CD LYS A 83147.323 3.133 -10.456 1.00 0.00 C
 ATOM 1196 CE LYS A 83148.071 3.897 -11.536 1.00 0.00 C
 ATOM 1197 NZ LYS A 83149.309 3.187 -11.962 1.00 0.00 N
 ATOM 1198 H LYS A 83148.058 1.747 -6.955 1.00 0.00 H
 ATOM 1199 HA LYS A 83147.415 4.449 -6.470 1.00 0.00 H
 ATOM 1200 1HB LYS A 83146.134 2.401 -8.281 1.00 0.00 H
 ATOM 1201 2HB LYS A 83145.714 4.108 -8.285 1.00 0.00 H
 ATOM 1202 1HG LYS A 83147.789 4.740 -9.138 1.00 0.00 H
 ATOM 1203 2HG LYS A 83148.538 3.203 -8.705 1.00 0.00 H
 ATOM 1204 1HD LYS A 83147.611 2.093 -10.500 1.00 0.00 H
 ATOM 1205 2HD LYS A 83146.261 3.221 -10.634 1.00 0.00 H
 ATOM 1206 1HE LYS A 83147.422 4.015 -12.391 1.00 0.00 H

ATOM	1207	2HE	LYS A	83148.339	4.871	-11.150	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83149.120	2.620	-12.814	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83149.638	2.556	-11.205	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83150.060	3.875	-12.176	1.00	0.00	H
ATOM	1211	N	LEU A	84145.318	4.580	-5.169	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.158	4.661	-4.291	1.00	0.00	C
ATOM	1213	C	LEU A	84142.865	4.491	-5.082	1.00	0.00	C
ATOM	1214	O	LEU A	84141.879	3.961	-4.572	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.151	6.002	-3.554	1.00	0.00	C
ATOM	1216	CG	LEU A	84142.910	6.266	-2.698	1.00	0.00	C
ATOM	1217	CD1	LEU A	84142.912	5.375	-1.467	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.843	7.733	-2.298	1.00	0.00	C
ATOM	1219	H	LEU A	84145.837	5.392	-5.350	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.233	3.863	-3.568	1.00	0.00	H
ATOM	1221	1HB	LEU A	84145.020	6.041	-2.914	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.229	6.791	-4.287	1.00	0.00	H
ATOM	1223	HG	LEU A	84142.027	6.036	-3.275	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84143.333	4.414	-1.719	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84141.899	5.244	-1.115	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84143.505	5.835	-0.689	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84142.606	8.332	-3.164	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84143.798	8.040	-1.898	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84142.078	7.866	-1.547	1.00	0.00	H
ATOM	1230	N	LYS A	85142.879	4.942	-6.332	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.709	4.839	-7.195	1.00	0.00	C
ATOM	1232	C	LYS A	85141.357	3.378	-7.464	1.00	0.00	C
ATOM	1233	O	LYS A	85140.198	3.045	-7.713	1.00	0.00	O
ATOM	1234	CB	LYS A	85141.956	5.567	-8.517	1.00	0.00	C
ATOM	1235	CG	LYS A	85143.160	5.042	-9.284	1.00	0.00	C
ATOM	1236	CD	LYS A	85144.320	6.026	-9.247	1.00	0.00	C
ATOM	1237	CE	LYS A	85144.051	7.236	-10.128	1.00	0.00	C

ATOM	1238	NZ	LYS A	85144.712	7.112	-11.457	1.00	0.00	N
ATOM	1239	H	LYS A	85143.696	5.354	-6.683	1.00	0.00	H
ATOM	1240	HA	LYS A	85140.880	5.308	-6.686	1.00	0.00	H
ATOM	1241	1HB	LYS A	85141.083	5.459	-9.143	1.00	0.00	H
ATOM	1242	2HB	LYS A	85142.114	6.616	-8.313	1.00	0.00	H
ATOM	1243	1HG	LYS A	85143.479	4.111	-8.842	1.00	0.00	H
ATOM	1244	2HG	LYS A	85142.875	4.876	-10.312	1.00	0.00	H
ATOM	1245	1HD	LYS A	85144.464	6.360	-8.231	1.00	0.00	H
ATOM	1246	2HD	LYS A	85145.212	5.528	-9.596	1.00	0.00	H
ATOM	1247	1HE	LYS A	85142.985	7.331	-10.273	1.00	0.00	H
ATOM	1248	2HE	LYS A	85144.426	8.119	-9.630	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85145.717	6.869	-11.335	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85144.645	8.011	-11.975	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85144.251	6.367	-12.017	1.00	0.00	H
ATOM	1252	N	SER A	86142.363	2.511	-7.412	1.00	0.00	N
ATOM	1253	CA	SER A	86142.158	1.087	-7.651	1.00	0.00	C
ATOM	1254	C	SER A	86142.188	0.306	-6.341	1.00	0.00	C
ATOM	1255	O	SER A	86142.608	-0.850	-6.306	1.00	0.00	O
ATOM	1256	CB	SER A	86143.227	0.549	-8.603	1.00	0.00	C
ATOM	1257	OG	SER A	86143.165	1.200	-9.861	1.00	0.00	O
ATOM	1258	H	SER A	86143.265	2.837	-7.209	1.00	0.00	H
ATOM	1259	HA	SER A	86141.187	0.965	-8.107	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.204	0.714	-8.176	1.00	0.00	H
ATOM	1261	2HB	SER A	86143.073	-0.510	-8.752	1.00	0.00	H
ATOM	1262	HG	SER A	86142.249	1.269	-10.141	1.00	0.00	H
ATOM	1263	N	CYS A	87141.740	0.946	-5.266	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.714	0.312	-3.953	1.00	0.00	C
ATOM	1265	C	CYS A	87140.288	-0.056	-3.555	1.00	0.00	C
ATOM	1266	O	CYS A	87139.363	0.738	-3.721	1.00	0.00	O
ATOM	1267	CB	CYS A	87142.326	1.241	-2.903	1.00	0.00	C
ATOM	1268	SG	CYS A	87144.133	1.202	-2.848	1.00	0.00	S

ATOM 1269 H CYS A 87141.417 1.868 -5.358 1.00 0.00 H
 ATOM 1270 HA CYS A 87142.303 -0.591 -4.011 1.00 0.00 H
 ATOM 1271 1HB CYS A 87142.027 2.256 -3.113 1.00 0.00 H
 ATOM 1272 2HB CYS A 87141.961 0.958 -1.927 1.00 0.00 H
 ATOM 1273 HG CYS A 87144.438 0.603 -3.533 1.00 0.00 H
 ATOM 1274 N ARG A 88140.119 -1.265 -3.030 1.00 0.00 N
 ATOM 1275 CA ARG A 88138.806 -1.737 -2.610 1.00 0.00 C
 ATOM 1276 C ARG A 88138.683 -1.722 -1.085 1.00 0.00 C
 ATOM 1277 O ARG A 88139.522 -2.287 -0.385 1.00 0.00 O
 ATOM 1278 CB ARG A 88138.558 -3.152 -3.140 1.00 0.00 C
 ATOM 1279 CG ARG A 88137.514 -3.212 -4.244 1.00 0.00 C
 ATOM 1280 CD ARG A 88136.107 -3.286 -3.675 1.00 0.00 C
 ATOM 1281 NE ARG A 88135.160 -3.860 -4.628 1.00 0.00 N
 ATOM 1282 CZ ARG A 88133.845 -3.915 -4.425 1.00 0.00 C
 ATOM 1283 NH1 ARG A 88133.319 -3.434 -3.305 1.00 0.00 N
 ATOM 1284 NH2 ARG A 88133.055 -4.454 -5.343 1.00 0.00 N
 ATOM 1285 H ARG A 88140.895 -1.853 -2.924 1.00 0.00 H
 ATOM 1286 HA ARG A 88138.067 -1.072 -3.029 1.00 0.00 H
 ATOM 1287 1HB ARG A 88139.485 -3.544 -3.530 1.00 0.00 H
 ATOM 1288 2HB ARG A 88138.226 -3.779 -2.326 1.00 0.00 H
 ATOM 1289 1HG ARG A 88137.598 -2.327 -4.856 1.00 0.00 H
 ATOM 1290 2HG ARG A 88137.695 -4.089 -4.849 1.00 0.00 H
 ATOM 1291 1HD ARG A 88136.123 -3.898 -2.786 1.00 0.00 H
 ATOM 1292 2HD ARG A 88135.784 -2.288 -3.417 1.00 0.00 H
 ATOM 1293 HE ARG A 88135.522 -4.222 -5.463 1.00 0.00 H
 ATOM 1294 1HH1 ARG A 88133.909 -3.027 -2.609 1.00 0.00 H
 ATOM 1295 2HH1 ARG A 88132.330 -3.480 -3.158 1.00 0.00 H
 ATOM 1296 1HH2 ARG A 88133.446 -4.818 -6.189 1.00 0.00 H
 ATOM 1297 2HH2 ARG A 88132.067 -4.496 -5.191 1.00 0.00 H
 ATOM 1298 N PRO A 89137.633 -1.072 -0.548 1.00 0.00 N
 ATOM 1299 CA PRO A 89137.417 -0.994 0.901 1.00 0.00 C

ATOM	1300	C	PRO A	89137.404	-2.369	1.559	1.00	0.00	C
ATOM	1301	O	PRO A	89136.670	-3.264	1.136	1.00	0.00	O
ATOM	1302	CB	PRO A	89136.041	-0.332	1.024	1.00	0.00	C
ATOM	1303	CG	PRO A	89135.870	0.429	-0.245	1.00	0.00	C
ATOM	1304	CD	PRO A	89136.580	-0.368	-1.303	1.00	0.00	C
ATOM	1305	HA	PRO A	89138.161	-0.375	1.379	1.00	0.00	H
ATOM	1306	1HB	PRO A	89135.282	-1.091	1.136	1.00	0.00	H
ATOM	1307	2HB	PRO A	89136.031	0.326	1.881	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.819	0.515	-0.482	1.00	0.00	H
ATOM	1309	2HG	PRO A	89136.316	1.408	-0.150	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.902	-1.070	-1.765	1.00	0.00	H
ATOM	1311	2HD	PRO A	89137.011	0.289	-2.044	1.00	0.00	H
ATOM	1312	N	ASPA	90138.220	-2.533	2.594	1.00	0.00	N
ATOM	1313	CA	ASPA	90138.302	-3.801	3.309	1.00	0.00	C
ATOM	1314	C	ASPA	90137.533	-3.735	4.624	1.00	0.00	C
ATOM	1315	O	ASPA	90138.011	-3.166	5.606	1.00	0.00	O
ATOM	1316	CB	ASPA	90139.763	-4.165	3.578	1.00	0.00	C
ATOM	1317	CG	ASPA	90139.987	-5.664	3.624	1.00	0.00	C
ATOM	1318	OD1	ASPA	90140.017	-6.226	4.739	1.00	0.00	O
ATOM	1319	OD2	ASPA	90140.130	-6.275	2.544	1.00	0.00	O
ATOM	1320	H	ASPA	90138.781	-1.783	2.885	1.00	0.00	H
ATOM	1321	HA	ASPA	90137.860	-4.562	2.685	1.00	0.00	H
ATOM	1322	1HB	ASPA	90140.381	-3.751	2.796	1.00	0.00	H
ATOM	1323	2HB	ASPA	90140.063	-3.746	4.527	1.00	0.00	H
ATOM	1324	N	SERA	91136.339	-4.319	4.637	1.00	0.00	N
ATOM	1325	CA	SERA	91135.506	-4.326	5.834	1.00	0.00	C
ATOM	1326	C	SERA	91135.639	-5.649	6.582	1.00	0.00	C
ATOM	1327	O	SERA	91134.700	-6.099	7.237	1.00	0.00	O
ATOM	1328	CB	SERA	91134.042	-4.084	5.463	1.00	0.00	C
ATOM	1329	OG	SERA	91133.352	-3.424	6.510	1.00	0.00	O
ATOM	1330	H	SERA	91136.012	-4.757	3.824	1.00	0.00	H

ATOM 1331 HA SER A 91135.842 -3.527 6.476 1.00 0.00 H
 ATOM 1332 1HB SER A 91133.994 -3.472 4.575 1.00 0.00 H
 ATOM 1333 2HB SER A 91133.560 -5.032 5.272 1.00 0.00 H
 ATOM 1334 HG SER A 91133.254 -4.021 7.255 1.00 0.00 H
 ATOM 1335 N ARG A 92136.812 -6.266 6.479 1.00 0.00 N
 ATOM 1336 CA ARG A 92137.067 -7.537 7.147 1.00 0.00 C
 ATOM 1337 C ARG A 92137.066 -7.367 8.663 1.00 0.00 C
 ATOM 1338 O ARG A 92136.736 -8.295 9.401 1.00 0.00 O
 ATOM 1339 CB ARG A 92138.406 -8.118 6.689 1.00 0.00 C
 ATOM 1340 CG ARG A 92138.307 -8.944 5.417 1.00 0.00 C
 ATOM 1341 CD ARG A 92137.309 -10.081 5.568 1.00 0.00 C
 ATOM 1342 NE ARG A 92136.010 -9.750 4.987 1.00 0.00 N
 ATOM 1343 CZ ARG A 92134.911 -10.481 5.164 1.00 0.00 C
 ATOM 1344 NH1 ARG A 92134.949 -11.582 5.903 1.00 0.00 N
 ATOM 1345 NH2 ARG A 92133.771 -10.109 4.598 1.00 0.00 N
 ATOM 1346 H ARG A 92137.522 -5.857 5.942 1.00 0.00 H
 ATOM 1347 HA ARG A 92136.276 -8.219 6.873 1.00 0.00 H
 ATOM 1348 1HB ARG A 92139.095 -7.305 6.511 1.00 0.00 H
 ATOM 1349 2HB ARG A 92138.800 -8.748 7.472 1.00 0.00 H
 ATOM 1350 1HG ARG A 92137.988 -8.305 4.607 1.00 0.00 H
 ATOM 1351 2HG ARG A 92139.279 -9.357 5.191 1.00 0.00 H
 ATOM 1352 1HD ARG A 92137.701 -10.956 5.072 1.00 0.00 H
 ATOM 1353 2HD ARG A 92137.180 -10.293 6.619 1.00 0.00 H
 ATOM 1354 HE ARG A 92135.953 -8.941 4.437 1.00 0.00 H
 ATOM 1355 1HH1 ARG A 92135.807 -11.868 6.332 1.00 0.00 H
 ATOM 1356 2HH1 ARG A 92134.121 -12.127 6.032 1.00 0.00 H
 ATOM 1357 1HH2 ARG A 92133.736 -9.280 4.040 1.00 0.00 H
 ATOM 1358 2HH2 ARG A 92132.945 -10.658 4.730 1.00 0.00 H
 ATOM 1359 N PHE A 93137.439 -6.176 9.122 1.00 0.00 N
 ATOM 1360 CA PHE A 93137.481 -5.887 10.550 1.00 0.00 C
 ATOM 1361 C PHE A 93136.780 -4.569 10.863 1.00 0.00 C

ATOM 1362 O PHE A 93137.137 -3.875 11.815 1.00 0.00 O
 ATOM 1363 CB PHE A 93138.930 -5.835 11.037 1.00 0.00 C
 ATOM 1364 CG PHE A 93139.691 -7.106 10.797 1.00 0.00 C
 ATOM 1365 CD1 PHE A 93140.083 -7.907 11.858 1.00 0.00 C
 ATOM 1366 CD2 PHE A 93140.013 -7.503 9.508 1.00 0.00 C
 ATOM 1367 CE1 PHE A 93140.783 -9.078 11.639 1.00 0.00 C
 ATOM 1368 CE2 PHE A 93140.713 -8.673 9.283 1.00 0.00 C
 ATOM 1369 CZ PHE A 93141.098 -9.462 10.350 1.00 0.00 C
 ATOM 1370 H PHE A 93137.693 -5.476 8.484 1.00 0.00 H
 ATOM 1371 HA PHE A 93136.968 -6.685 11.065 1.00 0.00 H
 ATOM 1372 1HB PHE A 93139.446 -5.036 10.524 1.00 0.00 H
 ATOM 1373 2HB PHE A 93138.938 -5.637 12.100 1.00 0.00 H
 ATOM 1374 HD1 PHE A 93139.836 -7.607 12.866 1.00 0.00 H
 ATOM 1375 HD2 PHE A 93139.713 -6.887 8.674 1.00 0.00 H
 ATOM 1376 HE1 PHE A 93141.083 -9.693 12.475 1.00 0.00 H
 ATOM 1377 HE2 PHE A 93140.959 -8.971 8.275 1.00 0.00 H
 ATOM 1378 HZ PHE A 93141.645 -10.376 10.176 1.00 0.00 H
 ATOM 1379 N ALA A 94135.778 -4.230 10.057 1.00 0.00 N
 ATOM 1380 CA ALA A 94135.027 -2.996 10.252 1.00 0.00 C
 ATOM 1381 C ALA A 94133.691 -3.270 10.933 1.00 0.00 C
 ATOM 1382 O ALA A 94132.872 -4.038 10.431 1.00 0.00 O
 ATOM 1383 CB ALA A 94134.809 -2.296 8.918 1.00 0.00 C
 ATOM 1384 H ALA A 94135.538 -4.825 9.315 1.00 0.00 H
 ATOM 1385 HA ALA A 94135.614 -2.345 10.882 1.00 0.00 H
 ATOM 1386 1HB ALA A 94134.850 -3.021 8.120 1.00 0.00 H
 ATOM 1387 2HB ALA A 94135.580 -1.554 8.772 1.00 0.00 H
 ATOM 1388 3HB ALA A 94133.842 -1.815 8.918 1.00 0.00 H
 ATOM 1389 N SER A 95133.478 -2.635 12.081 1.00 0.00 N
 ATOM 1390 CA SER A 95132.240 -2.810 12.832 1.00 0.00 C
 ATOM 1391 C SER A 95131.059 -2.200 12.085 1.00 0.00 C
 ATOM 1392 O SER A 95131.135 -1.074 11.594 1.00 0.00 O

ATOM 1393 CB SER A 95132.365 -2.173 14.217 1.00 0.00 C
 ATOM 1394 OG SER A 95131.405 -2.708 15.114 1.00 0.00 O
 ATOM 1395 H SER A 95134.169 -2.034 12.431 1.00 0.00 H
 ATOM 1396 HA SER A 95132.070 -3.870 12.947 1.00 0.00 H
 ATOM 1397 1HB SER A 95133.352 -2.365 14.611 1.00 0.00 H
 ATOM 1398 2HB SER A 95132.210 -1.108 14.137 1.00 0.00 H
 ATOM 1399 HG SER A 95130.544 -2.721 14.690 1.00 0.00 H
 ATOM 1400 N LEU A 96129.965 -2.952 12.003 1.00 0.00 N
 ATOM 1401 CA LEU A 96128.767 -2.486 11.316 1.00 0.00 C
 ATOM 1402 C LEU A 96127.508 -2.961 12.035 1.00 0.00 C
 ATOM 1403 O LEU A 96127.307 -4.159 12.230 1.00 0.00 O
 ATOM 1404 CB LEU A 96128.759 -2.981 9.868 1.00 0.00 C
 ATOM 1405 CG LEU A 96129.541 -2.112 8.882 1.00 0.00 C
 ATOM 1406 CD1 LEU A 96129.667 -2.811 7.537 1.00 0.00 C
 ATOM 1407 CD2 LEU A 96128.869 -0.757 8.719 1.00 0.00 C
 ATOM 1408 H LEU A 96129.965 -3.841 12.415 1.00 0.00 H
 ATOM 1409 HA LEU A 96128.783 -1.407 11.317 1.00 0.00 H
 ATOM 1410 1HB LEU A 96129.176 -3.978 9.849 1.00 0.00 H
 ATOM 1411 2HB LEU A 96127.733 -3.033 9.534 1.00 0.00 H
 ATOM 1412 HG LEU A 96130.537 -1.949 9.267 1.00 0.00 H
 ATOM 1413 1HD1 LEU A 96128.875 -2.478 6.882 1.00 0.00 H
 ATOM 1414 2HD1 LEU A 96129.590 -3.880 7.679 1.00 0.00 H
 ATOM 1415 3HD1 LEU A 96130.623 -2.574 7.096 1.00 0.00 H
 ATOM 1416 1HD2 LEU A 96128.830 -0.257 9.676 1.00 0.00 H
 ATOM 1417 2HD2 LEU A 96127.866 -0.895 8.344 1.00 0.00 H
 ATOM 1418 3HD2 LEU A 96129.435 -0.156 8.022 1.00 0.00 H
 ATOM 1419 N GLN A 97126.665 -2.011 12.428 1.00 0.00 N
 ATOM 1420 CA GLN A 97125.425 -2.332 13.127 1.00 0.00 C
 ATOM 1421 C GLN A 97124.243 -2.354 12.156 1.00 0.00 C
 ATOM 1422 O GLN A 97123.755 -1.304 11.739 1.00 0.00 O
 ATOM 1423 CB GLN A 97125.167 -1.315 14.240 1.00 0.00 C

ATOM 1424 CG GLN A 97125.424 -1.863 15.634 1.00 0.00 C
 ATOM 1425 CD GLN A 97124.146 -2.256 16.350 1.00 0.00 C
 ATOM 1426 OE1 GLN A 97123.962 -1.951 17.528 1.00 0.00 O
 ATOM 1427 NE2 GLN A 97123.255 -2.938 15.639 1.00 0.00 N
 ATOM 1428 H GLN A 97126.881 -1.073 12.244 1.00 0.00 H
 ATOM 1429 HA GLN A 97125.537 -3.311 13.565 1.00 0.00 H
 ATOM 1430 1HB GLN A 97125.810 -0.461 14.089 1.00 0.00 H
 ATOM 1431 2HB GLN A 97124.138 -0.993 14.187 1.00 0.00 H
 ATOM 1432 1HG GLN A 97126.055 -2.735 15.554 1.00 0.00 H
 ATOM 1433 2HG GLN A 97125.928 -1.107 16.218 1.00 0.00 H
 ATOM 1434 1HE2 GLN A 97123.470 -3.146 14.705 1.00 0.00 H
 ATOM 1435 2HE2 GLN A 97122.420 -3.205 16.076 1.00 0.00 H
 ATOM 1436 N PRO A 98123.766 -3.555 11.782 1.00 0.00 N
 ATOM 1437 CA PRO A 98122.638 -3.700 10.858 1.00 0.00 C
 ATOM 1438 C PRO A 98121.303 -3.372 11.518 1.00 0.00 C
 ATOM 1439 O PRO A 98121.041 -3.783 12.649 1.00 0.00 O
 ATOM 1440 CB PRO A 98122.694 -5.176 10.467 1.00 0.00 C
 ATOM 1441 CG PRO A 98123.315 -5.851 11.641 1.00 0.00 C
 ATOM 1442 CD PRO A 98124.286 -4.863 12.229 1.00 0.00 C
 ATOM 1443 HA PRO A 98122.765 -3.085 9.979 1.00 0.00 H
 ATOM 1444 1HB PRO A 98121.694 -5.541 10.282 1.00 0.00 H
 ATOM 1445 2HB PRO A 98123.298 -5.295 9.581 1.00 0.00 H
 ATOM 1446 1HG PRO A 98122.553 -6.103 12.364 1.00 0.00 H
 ATOM 1447 2HG PRO A 98123.834 -6.741 11.320 1.00 0.00 H
 ATOM 1448 1HD PRO A 98124.284 -4.928 13.307 1.00 0.00 H
 ATOM 1449 2HD PRO A 98125.279 -5.033 11.841 1.00 0.00 H
 ATOM 1450 N SER A 99120.462 -2.631 10.804 1.00 0.00 N
 ATOM 1451 CA SER A 99119.153 -2.249 11.322 1.00 0.00 C
 ATOM 1452 C SER A 99118.076 -3.219 10.847 1.00 0.00 C
 ATOM 1453 O SER A 99117.225 -3.649 11.627 1.00 0.00 O
 ATOM 1454 CB SER A 99118.803 -0.826 10.882 1.00 0.00 C

ATOM 1455 OG SER A 99117.906 -0.216 11.794 1.00 0.00 O
 ATOM 1456 H SER A 99120.727 -2.335 9.909 1.00 0.00 H
 ATOM 1457 HA SER A 99119.200 -2.282 12.399 1.00 0.00 H
 ATOM 1458 1HB SER A 99119.705 -0.235 10.834 1.00 0.00 H
 ATOM 1459 2HB SER A 99118.341 -0.857 9.907 1.00 0.00 H
 ATOM 1460 HG SER A 99117.119 0.070 11.326 1.00 0.00 H
 ATOM 1461 N GLY A 100118.117 -3.561 9.563 1.00 0.00 N
 ATOM 1462 CA GLY A 100117.140 -4.477 9.006 1.00 0.00 C
 ATOM 1463 C GLY A 100117.762 -5.478 8.050 1.00 0.00 C
 ATOM 1464 O GLY A 100118.930 -5.840 8.200 1.00 0.00 O
 ATOM 1465 H GLY A 100118.819 -3.187 8.988 1.00 0.00 H
 ATOM 1466 1HA GLY A 100116.667 -5.015 9.815 1.00 0.00 H
 ATOM 1467 2HA GLY A 100116.390 -3.909 8.478 1.00 0.00 H
 ATOM 1468 N PRO A 101117.001 -5.947 7.047 1.00 0.00 N
 ATOM 1469 CA PRO A 101117.498 -6.916 6.065 1.00 0.00 C
 ATOM 1470 C PRO A 101118.546 -6.311 5.135 1.00 0.00 C
 ATOM 1471 O PRO A 101119.493 -6.984 4.730 1.00 0.00 O
 ATOM 1472 CB PRO A 101116.244 -7.303 5.277 1.00 0.00 C
 ATOM 1473 CG PRO A 101115.329 -6.138 5.425 1.00 0.00 C
 ATOM 1474 CD PRO A 101115.598 -5.570 6.791 1.00 0.00 C
 ATOM 1475 HA PRO A 101117.909 -7.791 6.546 1.00 0.00 H
 ATOM 1476 1HB PRO A 101116.503 -7.474 4.243 1.00 0.00 H
 ATOM 1477 2HB PRO A 101115.813 -8.199 5.699 1.00 0.00 H
 ATOM 1478 1HG PRO A 101115.545 -5.402 4.664 1.00 0.00 H
 ATOM 1479 2HG PRO A 101114.302 -6.465 5.351 1.00 0.00 H
 ATOM 1480 1HD PRO A 101115.482 -4.497 6.784 1.00 0.00 H
 ATOM 1481 2HD PRO A 101114.940 -6.018 7.522 1.00 0.00 H
 ATOM 1482 N SER A 102118.367 -5.037 4.801 1.00 0.00 N
 ATOM 1483 CA SER A 102119.297 -4.341 3.919 1.00 0.00 C
 ATOM 1484 C SER A 102118.912 -2.873 3.773 1.00 0.00 C
 ATOM 1485 O SER A 102119.748 -1.983 3.931 1.00 0.00 O

ATOM 1486 CB SER A 102119.328 -5.012 2.544 1.00 0.00 C
 ATOM 1487 OG SER A 102118.028 -5.404 2.138 1.00 0.00 O
 ATOM 1488 H SER A 102117.592 -4.554 5.156 1.00 0.00 H
 ATOM 1489 HA SER A 102120.281 -4.401 4.361 1.00 0.00 H
 ATOM 1490 1HB SER A 102119.724 -4.319 1.817 1.00 0.00 H
 ATOM 1491 2HB SER A 102119.958 -5.888 2.587 1.00 0.00 H
 ATOM 1492 HG SER A 102117.584 -4.662 1.720 1.00 0.00 H
 ATOM 1493 N SER A 103117.641 -2.626 3.472 1.00 0.00 N
 ATOM 1494 CA SER A 103117.145 -1.265 3.305 1.00 0.00 C
 ATOM 1495 C SER A 103115.622 -1.246 3.240 1.00 0.00 C
 ATOM 1496 O SER A 103114.978 -2.295 3.195 1.00 0.00 O
 ATOM 1497 CB SER A 103117.729 -0.639 2.037 1.00 0.00 C
 ATOM 1498 OG SER A 103118.925 0.066 2.321 1.00 0.00 O
 ATOM 1499 H SER A 103117.022 -3.378 3.359 1.00 0.00 H
 ATOM 1500 HA SER A 103117.465 -0.689 4.160 1.00 0.00 H
 ATOM 1501 1HB SER A 103117.946 -1.417 1.321 1.00 0.00 H
 ATOM 1502 2HB SER A 103117.011 0.048 1.615 1.00 0.00 H
 ATOM 1503 HG SER A 103119.621 -0.234 1.732 1.00 0.00 H
 ATOM 1504 N GLY A 104115.049 -0.046 3.236 1.00 0.00 N
 ATOM 1505 CA GLY A 104113.605 0.086 3.176 1.00 0.00 C
 ATOM 1506 C GLY A 104113.168 1.467 2.728 1.00 0.00 C
 ATOM 1507 O GLY A 104112.708 2.251 3.585 1.00 0.00 O
 ATOM 1508 OXT GLY A 104113.285 1.764 1.521 1.00 0.00 O
 ATOM 1509 H GLY A 104115.612 0.755 3.273 1.00 0.00 H
 ATOM 1510 1HA GLY A 104113.216 -0.645 2.484 1.00 0.00 H
 ATOM 1511 2HA GLY A 104113.196 -0.108 4.157 1.00 0.00 H
 TER 1512 GLY A 104
 ENDMDL

Three-Dimensional Structure Coordinate Table 9

ATOM 1 N GLY A 1127.996 -5.495 4.967 1.00 0.00 N

ATOM 2	CA	GLY A	1127.436	-4.222	5.499	1.00	0.00	C
ATOM 3	C	GLY A	1127.407	-3.121	4.459	1.00	0.00	C
ATOM 4	O	GLY A	1126.530	-2.258	4.483	1.00	0.00	O
ATOM 5	1H	GLY A	1129.036	-5.459	4.975	1.00	0.00	H
ATOM 6	2H	GLY A	1127.674	-5.646	3.989	1.00	0.00	H
ATOM 7	3H	GLY A	1127.683	-6.296	5.551	1.00	0.00	H
ATOM 8	1HA	GLY A	1126.428	-4.402	5.845	1.00	0.00	H
ATOM 9	2HA	GLY A	1128.040	-3.898	6.334	1.00	0.00	H
ATOM 10	N	SER A	2128.369	-3.150	3.543	1.00	0.00	N
ATOM 11	CA	SER A	2128.452	-2.145	2.488	1.00	0.00	C
ATOM 12	C	SER A	2127.262	-2.254	1.539	1.00	0.00	C
ATOM 13	O	SER A	2126.460	-1.327	1.425	1.00	0.00	O
ATOM 14	CB	SER A	2129.758	-2.301	1.707	1.00	0.00	C
ATOM 15	OG	SER A	2130.194	-3.649	1.704	1.00	0.00	O
ATOM 16	H	SER A	2129.040	-3.863	3.576	1.00	0.00	H
ATOM 17	HA	SER A	2128.436	-1.172	2.956	1.00	0.00	H
ATOM 18	1HB	SER A	2129.604	-1.984	0.686	1.00	0.00	H
ATOM 19	2HB	SER A	2130.522	-1.688	2.163	1.00	0.00	H
ATOM 20	HG	SER A	2130.040	-4.034	0.839	1.00	0.00	H
ATOM 21	N	SER A	3127.155	-3.392	0.861	1.00	0.00	N
ATOM 22	CA	SER A	3126.063	-3.622	-0.079	1.00	0.00	C
ATOM 23	C	SER A	3124.712	-3.534	0.624	1.00	0.00	C
ATOM 24	O	SER A	3124.618	-3.732	1.836	1.00	0.00	O
ATOM 25	CB	SER A	3126.216	-4.989	-0.747	1.00	0.00	C
ATOM 26	OG	SER A	3126.958	-4.889	-1.950	1.00	0.00	O
ATOM 27	H	SER A	3127.825	-4.094	0.995	1.00	0.00	H
ATOM 28	HA	SER A	3126.111	-2.853	-0.836	1.00	0.00	H
ATOM 29	1HB	SER A	3126.733	-5.659	-0.076	1.00	0.00	H
ATOM 30	2HB	SER A	3125.239	-5.388	-0.972	1.00	0.00	H
ATOM 31	HG	SER A	3127.724	-4.327	-1.809	1.00	0.00	H
ATOM 32	N	GLY A	4123.668	-3.236	-0.143	1.00	0.00	N

ATOM33 CA GLY A 4122.338 -3.127 0.425 1.00 0.00 C
 ATOM34 C GLY A 4122.252 -2.063 1.500 1.00 0.00 C
 ATOM35 O GLY A 4123.271 -1.522 1.928 1.00 0.00 O
 ATOM36 H GLY A 4123.804 -3.088 -1.103 1.00 0.00 H
 ATOM37 1HA GLY A 4121.641 -2.885 -0.364 1.00 0.00 H
 ATOM38 2HA GLY A 4122.062 -4.080 0.853 1.00 0.00 H
 ATOM39 N SER A 5121.032 -1.761 1.938 1.00 0.00 N
 ATOM40 CA SER A 5120.812 -0.752 2.971 1.00 0.00 C
 ATOM41 C SER A 5121.111 0.647 2.440 1.00 0.00 C
 ATOM42 O SER A 5120.218 1.488 2.344 1.00 0.00 O
 ATOM43 CB SER A 5121.680 -1.042 4.198 1.00 0.00 C
 ATOM44 OG SER A 5120.979 -0.763 5.397 1.00 0.00 O
 ATOM45 H SER A 5120.260 -2.229 1.555 1.00 0.00 H
 ATOM46 HA SER A 5119.773 -0.799 3.259 1.00 0.00 H
 ATOM47 1HB SER A 5121.964 -2.085 4.197 1.00 0.00 H
 ATOM48 2HB SER A 5122.568 -0.428 4.162 1.00 0.00 H
 ATOM49 HG SER A 5120.189 -1.306 5.440 1.00 0.00 H
 ATOM50 N SER A 6122.373 0.889 2.097 1.00 0.00 N
 ATOM51 CA SER A 6122.793 2.186 1.576 1.00 0.00 C
 ATOM52 C SER A 6122.700 3.261 2.653 1.00 0.00 C
 ATOM53 O SER A 6121.654 3.883 2.837 1.00 0.00 O
 ATOM54 CB SER A 6121.937 2.580 0.369 1.00 0.00 C
 ATOM55 OG SER A 6121.576 1.443 -0.394 1.00 0.00 O
 ATOM56 H SER A 6123.040 0.178 2.198 1.00 0.00 H
 ATOM57 HA SER A 6123.822 2.098 1.262 1.00 0.00 H
 ATOM58 1HB SER A 6121.038 3.068 0.713 1.00 0.00 H
 ATOM59 2HB SER A 6122.497 3.259 -0.259 1.00 0.00 H
 ATOM60 HG SER A 6120.764 1.623 -0.873 1.00 0.00 H
 ATOM61 N GLY A 7123.804 3.476 3.363 1.00 0.00 N
 ATOM62 CA GLY A 7123.829 4.477 4.412 1.00 0.00 C
 ATOM63 C GLY A 7125.104 5.296 4.400 1.00 0.00 C

ATOM64	O	GLY A	7125.065	6.520	4.527	1.00	0.00	O
ATOM65	H	GLY A	7124.609	2.950	3.170	1.00	0.00	H
ATOM66	1HA	GLY A	7122.986	5.140	4.283	1.00	0.00	H
ATOM67	2HA	GLY A	7123.740	3.983	5.369	1.00	0.00	H
ATOM68	N	LEU A	8126.238	4.620	4.248	1.00	0.00	N
ATOM69	CA	LEU A	8127.532	5.292	4.219	1.00	0.00	C
ATOM70	C	LEU A	8128.105	5.309	2.805	1.00	0.00	C
ATOM71	O	LEU A	8128.927	4.466	2.448	1.00	0.00	O
ATOM72	CB	LEU A	8128.512	4.600	5.169	1.00	0.00	C
ATOM73	CG	LEU A	8127.931	4.217	6.531	1.00	0.00	C
ATOM74	CD1	LEU A	8128.639	2.991	7.087	1.00	0.00	C
ATOM75	CD2	LEU A	8128.039	5.384	7.502	1.00	0.00	C
ATOM76	H	LEU A	8126.204	3.645	4.152	1.00	0.00	H
ATOM77	HA	LEU A	8127.384	6.310	4.548	1.00	0.00	H
ATOM78	1HB	LEU A	8128.872	3.702	4.689	1.00	0.00	H
ATOM79	2HB	LEU A	8129.349	5.261	5.333	1.00	0.00	H
ATOM80	HG	LEU A	8126.885	3.974	6.415	1.00	0.00	H
ATOM81	1HD1	LEU A	8128.427	2.901	8.143	1.00	0.00	H
ATOM82	2HD1	LEU A	8129.705	3.094	6.942	1.00	0.00	H
ATOM83	3HD1	LEU A	8128.288	2.108	6.573	1.00	0.00	H
ATOM84	1HD2	LEU A	8127.268	5.299	8.253	1.00	0.00	H
ATOM85	2HD2	LEU A	8127.917	6.312	6.964	1.00	0.00	H
ATOM86	3HD2	LEU A	8129.008	5.368	7.978	1.00	0.00	H
ATOM87	N	ALAA	9127.663	6.274	2.004	1.00	0.00	N
ATOM88	CA	ALAA	9128.131	6.400	0.630	1.00	0.00	C
ATOM89	C	ALAA	9128.306	7.864	0.241	1.00	0.00	C
ATOM90	O	ALAA	9127.411	8.683	0.450	1.00	0.00	O
ATOM91	CB	ALAA	9127.166	5.710	-0.321	1.00	0.00	C
ATOM92	H	ALAA	9127.007	6.917	2.347	1.00	0.00	H
ATOM93	HA	ALAA	9129.088	5.903	0.558	1.00	0.00	H
ATOM94	1HB	ALAA	9126.500	6.444	-0.753	1.00	0.00	H

ATOM95 2HB ALAA 9126.588 4.976 0.222 1.00 0.00 H
 ATOM96 3HB ALAA 9127.721 5.222 -1.107 1.00 0.00 H
 ATOM97 N META 10129.464 8.186 -0.326 1.00 0.00 N
 ATOM98 CA META 10129.755 9.553 -0.746 1.00 0.00 C
 ATOM99 C META 10130.359 9.575 -2.148 1.00 0.00 C
 ATOM 100 O META 10131.577 9.500 -2.309 1.00 0.00 O
 ATOM 101 CB META 10130.713 10.218 0.244 1.00 0.00 C
 ATOM 102 CG META 10130.546 11.726 0.332 1.00 0.00 C
 ATOM 103 SD META 10132.032 12.556 0.926 1.00 0.00 S
 ATOM 104 CE META 10132.482 11.502 2.302 1.00 0.00 C
 ATOM 105 H META 10130.137 7.489 -0.466 1.00 0.00 H
 ATOM 106 HA META 10128.826 10.101 -0.756 1.00 0.00 H
 ATOM 107 1HB META 10130.546 9.801 1.225 1.00 0.00 H
 ATOM 108 2HB META 10131.728 10.008 -0.059 1.00 0.00 H
 ATOM 109 1HG META 10130.307 12.107 -0.649 1.00 0.00 H
 ATOM 110 2HG META 10129.733 11.945 1.009 1.00 0.00 H
 ATOM 111 1HE META 10131.660 10.838 2.531 1.00 0.00 H
 ATOM 112 2HE META 10132.704 12.111 3.166 1.00 0.00 H
 ATOM 113 3HE META 10133.353 10.919 2.040 1.00 0.00 H
 ATOM 114 N PRO A 11129.510 9.679 -3.186 1.00 0.00 N
 ATOM 115 CA PRO A 11129.968 9.712 -4.578 1.00 0.00 C
 ATOM 116 C PRO A 11130.980 10.829 -4.830 1.00 0.00 C
 ATOM 117 O PRO A 11132.013 10.604 -5.461 1.00 0.00 O
 ATOM 118 CB PRO A 11128.690 9.958 -5.383 1.00 0.00 C
 ATOM 119 CG PRO A 11127.575 9.536 -4.490 1.00 0.00 C
 ATOM 120 CD PRO A 11128.044 9.776 -3.082 1.00 0.00 C
 ATOM 121 HA PRO A 11130.404 8.768 -4.869 1.00 0.00 H
 ATOM 122 1HB PRO A 11128.619 11.004 -5.640 1.00 0.00 H
 ATOM 123 2HB PRO A 11128.714 9.365 -6.286 1.00 0.00 H
 ATOM 124 1HG PRO A 11126.699 10.131 -4.695 1.00 0.00 H
 ATOM 125 2HG PRO A 11127.361 8.488 -4.639 1.00 0.00 H

ATOM	126	1HD	PRO A	11127.745	10.759	-2.747	1.00	0.00	H
ATOM	127	2HD	PRO A	11127.654	9.016	-2.420	1.00	0.00	H
ATOM	128	N	PRO A	12130.705	12.051	-4.336	1.00	0.00	N
ATOM	129	CA	PRO A	12131.611	13.191	-4.516	1.00	0.00	C
ATOM	130	C	PRO A	12132.995	12.918	-3.938	1.00	0.00	C
ATOM	131	O	PRO A	12133.971	13.573	-4.303	1.00	0.00	O
ATOM	132	CB	PRO A	12130.928	14.329	-3.749	1.00	0.00	C
ATOM	133	CG	PRO A	12129.499	13.920	-3.643	1.00	0.00	C
ATOM	134	CD	PRO A	12129.506	12.421	-3.563	1.00	0.00	C
ATOM	135	HA	PRO A	12131.705	13.460	-5.558	1.00	0.00	H
ATOM	136	1HB	PRO A	12131.382	14.431	-2.775	1.00	0.00	H
ATOM	137	2HB	PRO A	12131.033	15.251	-4.300	1.00	0.00	H
ATOM	138	1HG	PRO A	12129.061	14.342	-2.750	1.00	0.00	H
ATOM	139	2HG	PRO A	12128.957	14.246	-4.519	1.00	0.00	H
ATOM	140	1HD	PRO A	12129.593	12.098	-2.536	1.00	0.00	H
ATOM	141	2HD	PRO A	12128.615	12.015	-4.013	1.00	0.00	H
ATOM	142	N	GLY A	13133.070	11.946	-3.033	1.00	0.00	N
ATOM	143	CA	GLY A	13134.339	11.603	-2.418	1.00	0.00	C
ATOM	144	C	GLY A	13135.224	10.780	-3.333	1.00	0.00	C
ATOM	145	O	GLY A	13135.246	10.995	-4.545	1.00	0.00	O
ATOM	146	H	GLY A	13132.258	11.458	-2.781	1.00	0.00	H
ATOM	147	1HA	GLY A	13134.858	12.515	-2.158	1.00	0.00	H
ATOM	148	2HA	GLY A	13134.149	11.040	-1.517	1.00	0.00	H
ATOM	149	N	ASN A	14135.956	9.835	-2.753	1.00	0.00	N
ATOM	150	CA	ASN A	14136.846	8.976	-3.524	1.00	0.00	C
ATOM	151	C	ASN A	14136.100	7.759	-4.061	1.00	0.00	C
ATOM	152	O	ASN A	14136.231	7.404	-5.232	1.00	0.00	O
ATOM	153	CB	ASN A	14138.027	8.525	-2.662	1.00	0.00	C
ATOM	154	CG	ASN A	14138.857	9.692	-2.162	1.00	0.00	C
ATOM	155	OD1	ASN A	14138.854	10.769	-2.756	1.00	0.00	O
ATOM	156	ND2	ASN A	14139.573	9.481	-1.064	1.00	0.00	N

ATOM	157	H	ASN A	14135.895	9.712	-1.782	1.00	0.00	H
ATOM	158	HA	ASN A	14137.220	9.551	-4.358	1.00	0.00	H
ATOM	159	1HB	ASN A	14137.653	7.982	-1.806	1.00	0.00	H
ATOM	160	2HB	ASN A	14138.663	7.876	-3.245	1.00	0.00	H
ATOM	161	1HD2	ASN A	14139.527	8.597	-0.644	1.00	0.00	H
ATOM	162	2HD2	ASN A	14140.120	10.217	-0.719	1.00	0.00	H
ATOM	163	N	SER A	15135.315	7.125	-3.196	1.00	0.00	N
ATOM	164	CA	SER A	15134.547	5.947	-3.583	1.00	0.00	C
ATOM	165	C	SER A	15133.644	5.488	-2.442	1.00	0.00	C
ATOM	166	O	SER A	15132.494	5.108	-2.662	1.00	0.00	O
ATOM	167	CB	SER A	15135.486	4.812	-3.996	1.00	0.00	C
ATOM	168	OG	SER A	15136.245	4.351	-2.892	1.00	0.00	O
ATOM	169	H	SER A	15135.251	7.455	-2.275	1.00	0.00	H
ATOM	170	HA	SER A	15133.930	6.217	-4.427	1.00	0.00	H
ATOM	171	1HB	SER A	15134.904	3.989	-4.385	1.00	0.00	H
ATOM	172	2HB	SER A	15136.162	5.168	-4.759	1.00	0.00	H
ATOM	173	HG	SER A	15137.023	4.903	-2.786	1.00	0.00	H
ATOM	174	N	HIS A	16134.175	5.525	-1.224	1.00	0.00	N
ATOM	175	CA	HIS A	16133.417	5.111	-0.049	1.00	0.00	C
ATOM	176	C	HIS A	16133.979	5.757	1.214	1.00	0.00	C
ATOM	177	O	HIS A	16133.236	6.307	2.026	1.00	0.00	O
ATOM	178	CB	HIS A	16133.435	3.586	0.086	1.00	0.00	C
ATOM	179	CG	HIS A	16132.079	2.962	-0.010	1.00	0.00	C
ATOM	180	ND1	HIS A	16131.135	3.053	0.991	1.00	0.00	N
ATOM	181	CD2	HIS A	16131.507	2.232	-0.998	1.00	0.00	C
ATOM	182	CE1	HIS A	16130.042	2.407	0.624	1.00	0.00	C
ATOM	183	NE2	HIS A	16130.242	1.900	-0.578	1.00	0.00	N
ATOM	184	H	HIS A	16135.097	5.836	-1.113	1.00	0.00	H
ATOM	185	HA	HIS A	16132.397	5.439	-0.181	1.00	0.00	H
ATOM	186	1HB	HIS A	16134.049	3.170	-0.699	1.00	0.00	H
ATOM	187	2HB	HIS A	16133.858	3.320	1.044	1.00	0.00	H

ATOM	188	HD1	HIS A	16131.249	3.521	1.845	1.00	0.00	H
ATOM	189	HD2	HIS A	16131.962	1.962	-1.940	1.00	0.00	H
ATOM	190	HE1	HIS A	16129.139	2.311	1.208	1.00	0.00	H
ATOM	191	HE2	HIS A	16129.625	1.303	-1.049	1.00	0.00	H
ATOM	192	N	GLY A	17135.297	5.683	1.373	1.00	0.00	N
ATOM	193	CA	GLY A	17135.936	6.264	2.539	1.00	0.00	C
ATOM	194	C	GLY A	17137.228	5.562	2.903	1.00	0.00	C
ATOM	195	O	GLY A	17137.354	5.004	3.994	1.00	0.00	O
ATOM	196	H	GLY A	17135.839	5.232	0.693	1.00	0.00	H
ATOM	197	1HA	GLY A	17136.149	7.304	2.339	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.257	6.203	3.377	1.00	0.00	H
ATOM	199	N	LEU A	18138.193	5.587	1.989	1.00	0.00	N
ATOM	200	CA	LEU A	18139.483	4.948	2.219	1.00	0.00	C
ATOM	201	C	LEU A	18140.546	5.982	2.577	1.00	0.00	C
ATOM	202	O	LEU A	18140.944	6.792	1.741	1.00	0.00	O
ATOM	203	CB	LEU A	18139.915	4.162	0.980	1.00	0.00	C
ATOM	204	CG	LEU A	18138.847	3.235	0.396	1.00	0.00	C
ATOM	205	CD1	LEU A	18139.067	3.043	-1.097	1.00	0.00	C
ATOM	206	CD2	LEU A	18138.857	1.894	1.114	1.00	0.00	C
ATOM	207	H	LEU A	18138.033	6.049	1.139	1.00	0.00	H
ATOM	208	HA	LEU A	18139.370	4.264	3.047	1.00	0.00	H
ATOM	209	1HB	LEU A	18140.207	4.868	0.216	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.775	3.563	1.240	1.00	0.00	H
ATOM	211	HG	LEU A	18137.875	3.684	0.534	1.00	0.00	H
ATOM	212	1HD1	LEU A	18138.111	2.991	-1.597	1.00	0.00	H
ATOM	213	2HD1	LEU A	18139.612	2.126	-1.266	1.00	0.00	H
ATOM	214	3HD1	LEU A	18139.632	3.876	-1.488	1.00	0.00	H
ATOM	215	1HD2	LEU A	18137.880	1.440	1.041	1.00	0.00	H
ATOM	216	2HD2	LEU A	18139.107	2.045	2.154	1.00	0.00	H
ATOM	217	3HD2	LEU A	18139.590	1.246	0.658	1.00	0.00	H
ATOM	218	N	GLU A	19141.003	5.945	3.825	1.00	0.00	N

ATOM	219	CA	GLU A	19142.020	6.879	4.293	1.00	0.00	C
ATOM	220	C	GLU A	19143.006	6.186	5.228	1.00	0.00	C
ATOM	221	O	GLU A	19142.874	4.996	5.513	1.00	0.00	O
ATOM	222	CB	GLU A	19141.365	8.062	5.010	1.00	0.00	C
ATOM	223	CG	GLU A	19140.356	7.647	6.069	1.00	0.00	C
ATOM	224	CD	GLU A	19140.441	8.499	7.320	1.00	0.00	C
ATOM	225	OE1	GLU A	19139.379	8.824	7.891	1.00	0.00	O
ATOM	226	OE2	GLU A	19141.570	8.843	7.730	1.00	0.00	O
ATOM	227	H	GLU A	19140.647	5.276	4.445	1.00	0.00	H
ATOM	228	HA	GLU A	19142.556	7.246	3.431	1.00	0.00	H
ATOM	229	1HB	GLU A	19142.135	8.649	5.487	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.856	8.674	4.280	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.363	7.738	5.657	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.540	6.618	6.340	1.00	0.00	H
ATOM	233	N	VAL A	20143.994	6.939	5.702	1.00	0.00	N
ATOM	234	CA	VAL A	20145.003	6.398	6.605	1.00	0.00	C
ATOM	235	C	VAL A	20144.363	5.835	7.870	1.00	0.00	C
ATOM	236	O	VAL A	20143.408	6.402	8.400	1.00	0.00	O
ATOM	237	CB	VAL A	20146.035	7.470	7.000	1.00	0.00	C
ATOM	238	CG1	VAL A	20147.175	6.849	7.793	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.563	8.184	5.765	1.00	0.00	C
ATOM	240	H	VAL A	20144.045	7.882	5.438	1.00	0.00	H
ATOM	241	HA	VAL A	20145.520	5.603	6.089	1.00	0.00	H
ATOM	242	HB	VAL A	20145.546	8.199	7.628	1.00	0.00	H
ATOM	243	1HG1	VAL A	20146.826	6.589	8.781	1.00	0.00	H
ATOM	244	2HG1	VAL A	20147.987	7.558	7.873	1.00	0.00	H
ATOM	245	3HG1	VAL A	20147.523	5.960	7.289	1.00	0.00	H
ATOM	246	1HG2	VAL A	20145.905	9.001	5.513	1.00	0.00	H
ATOM	247	2HG2	VAL A	20146.608	7.489	4.939	1.00	0.00	H
ATOM	248	3HG2	VAL A	20147.552	8.568	5.965	1.00	0.00	H
ATOM	249	N	GLY A	21144.897	4.714	8.348	1.00	0.00	N

ATOM	250	CA	GLY A	21144.365	4.094	9.547	1.00	0.00	C
ATOM	251	C	GLY A	21143.362	2.999	9.237	1.00	0.00	C
ATOM	252	O	GLY A	21143.332	1.968	9.909	1.00	0.00	O
ATOM	253	H	GLY A	21145.657	4.307	7.882	1.00	0.00	H
ATOM	254	1HA	GLY A	21145.181	3.670	10.111	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.881	4.850	10.147	1.00	0.00	H
ATOM	256	N	SER A	22142.540	3.222	8.216	1.00	0.00	N
ATOM	257	CA	SER A	22141.533	2.247	7.819	1.00	0.00	C
ATOM	258	C	SER A	22142.140	1.169	6.927	1.00	0.00	C
ATOM	259	O	SER A	22143.184	1.377	6.308	1.00	0.00	O
ATOM	260	CB	SER A	22140.381	2.940	7.088	1.00	0.00	C
ATOM	261	OG	SER A	22139.915	4.061	7.820	1.00	0.00	O
ATOM	262	H	SER A	22142.615	4.063	7.719	1.00	0.00	H
ATOM	263	HA	SER A	22141.150	1.782	8.716	1.00	0.00	H
ATOM	264	1HB	SER A	22140.722	3.275	6.120	1.00	0.00	H
ATOM	265	2HB	SER A	22139.566	2.244	6.962	1.00	0.00	H
ATOM	266	HG	SER A	22139.825	3.824	8.746	1.00	0.00	H
ATOM	267	N	LEU A	23141.480	0.017	6.867	1.00	0.00	N
ATOM	268	CA	LEU A	23141.956	-1.095	6.052	1.00	0.00	C
ATOM	269	C	LEU A	23141.365	-1.033	4.648	1.00	0.00	C
ATOM	270	O	LEU A	23140.256	-0.536	4.451	1.00	0.00	O
ATOM	271	CB	LEU A	23141.597	-2.428	6.711	1.00	0.00	C
ATOM	272	CG	LEU A	23142.398	-2.764	7.970	1.00	0.00	C
ATOM	273	CD1	LEU A	23141.572	-3.626	8.913	1.00	0.00	C
ATOM	274	CD2	LEU A	23143.697	-3.466	7.602	1.00	0.00	C
ATOM	275	H	LEU A	23140.655	-0.089	7.384	1.00	0.00	H
ATOM	276	HA	LEU A	23143.031	-1.017	5.981	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.549	-2.406	6.971	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.755	-3.216	5.990	1.00	0.00	H
ATOM	279	HG	LEU A	23142.646	-1.848	8.485	1.00	0.00	H
ATOM	280	1HD1	LEU A	23141.798	-4.668	8.739	1.00	0.00	H

ATOM	281	2HD1	LEU A	23140.522	-3.451	8.734	1.00	0.00	H
ATOM	282	3HD1	LEU A	23141.811	-3.372	9.935	1.00	0.00	H
ATOM	283	1HD2	LEU A	23144.307	-3.580	8.485	1.00	0.00	H
ATOM	284	2HD2	LEU A	23144.230	-2.877	6.870	1.00	0.00	H
ATOM	285	3HD2	LEU A	23143.475	-4.439	7.190	1.00	0.00	H
ATOM	286	N	ALA A	24142.112	-1.543	3.674	1.00	0.00	N
ATOM	287	CA	ALA A	24141.663	-1.547	2.287	1.00	0.00	C
ATOM	288	C	ALA A	24142.247	-2.733	1.526	1.00	0.00	C
ATOM	289	O	ALA A	24143.268	-3.294	1.920	1.00	0.00	O
ATOM	290	CB	ALA A	24142.041	-0.242	1.605	1.00	0.00	C
ATOM	291	H	ALA A	24142.987	-1.926	3.894	1.00	0.00	H
ATOM	292	HA	ALA A	24140.585	-1.627	2.286	1.00	0.00	H
ATOM	293	1HB	ALA A	24143.115	-0.194	1.488	1.00	0.00	H
ATOM	294	2HB	ALA A	24141.710	0.590	2.210	1.00	0.00	H
ATOM	295	3HB	ALA A	24141.571	-0.191	0.635	1.00	0.00	H
ATOM	296	N	GLU A	25141.590	-3.108	0.432	1.00	0.00	N
ATOM	297	CA	GLU A	25142.043	-4.228	-0.385	1.00	0.00	C
ATOM	298	C	GLU A	25142.350	-3.772	-1.808	1.00	0.00	C
ATOM	299	O	GLU A	25141.727	-2.844	-2.321	1.00	0.00	O
ATOM	300	CB	GLU A	25140.984	-5.332	-0.407	1.00	0.00	C
ATOM	301	CG	GLU A	25141.514	-6.676	-0.879	1.00	0.00	C
ATOM	302	CD	GLU A	25140.504	-7.441	-1.711	1.00	0.00	C
ATOM	303	OE1	GLU A	25140.920	-8.347	-2.463	1.00	0.00	O
ATOM	304	OE2	GLU A	25139.298	-7.134	-1.611	1.00	0.00	O
ATOM	305	H	GLU A	25140.781	-2.621	0.169	1.00	0.00	H
ATOM	306	HA	GLU A	25142.947	-4.617	0.058	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.589	-5.454	0.590	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.184	-5.032	-1.068	1.00	0.00	H
ATOM	309	1HG	GLU A	25142.399	-6.511	-1.476	1.00	0.00	H
ATOM	310	2HG	GLU A	25141.771	-7.270	-0.013	1.00	0.00	H
ATOM	311	N	VAL A	26143.315	-4.433	-2.442	1.00	0.00	N

ATOM	312	CA	VAL A	26143.705	-4.095	-3.805	1.00	0.00	C
ATOM	313	C	VAL A	26143.324	-5.207	-4.777	1.00	0.00	C
ATOM	314	O	VAL A	26143.308	-6.383	-4.414	1.00	0.00	O
ATOM	315	CB	VAL A	26145.219	-3.835	-3.909	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.574	-3.289	-5.284	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.674	-2.882	-2.814	1.00	0.00	C
ATOM	318	H	VAL A	26143.776	-5.165	-1.979	1.00	0.00	H
ATOM	319	HA	VAL A	26143.184	-3.191	-4.086	1.00	0.00	H
ATOM	320	HB	VAL A	26145.735	-4.775	-3.776	1.00	0.00	H
ATOM	321	1HG1	VAL A	26145.885	-4.100	-5.925	1.00	0.00	H
ATOM	322	2HG1	VAL A	26146.379	-2.575	-5.190	1.00	0.00	H
ATOM	323	3HG1	VAL A	26144.710	-2.802	-5.712	1.00	0.00	H
ATOM	324	1HG2	VAL A	26145.138	-1.948	-2.905	1.00	0.00	H
ATOM	325	2HG2	VAL A	26146.733	-2.700	-2.913	1.00	0.00	H
ATOM	326	3HG2	VAL A	26145.472	-3.321	-1.849	1.00	0.00	H
ATOM	327	N	LYS A	27143.019	-4.827	-6.013	1.00	0.00	N
ATOM	328	CA	LYS A	27142.638	-5.792	-7.038	1.00	0.00	C
ATOM	329	C	LYS A	27143.856	-6.246	-7.835	1.00	0.00	C
ATOM	330	O	LYS A	27144.131	-5.728	-8.917	1.00	0.00	O
ATOM	331	CB	LYS A	27141.596	-5.184	-7.978	1.00	0.00	C
ATOM	332	CG	LYS A	27140.860	-6.215	-8.820	1.00	0.00	C
ATOM	333	CD	LYS A	27141.342	-6.206	-10.262	1.00	0.00	C
ATOM	334	CE	LYS A	27141.289	-7.596	-10.876	1.00	0.00	C
ATOM	335	NZ	LYS A	27141.792	-7.605	-12.277	1.00	0.00	N
ATOM	336	H	LYS A	27143.050	-3.875	-6.241	1.00	0.00	H
ATOM	337	HA	LYS A	27142.208	-6.649	-6.542	1.00	0.00	H
ATOM	338	1HB	LYS A	27140.867	-4.647	-7.389	1.00	0.00	H
ATOM	339	2HB	LYS A	27142.089	-4.491	-8.645	1.00	0.00	H
ATOM	340	1HG	LYS A	27141.031	-7.196	-8.400	1.00	0.00	H
ATOM	341	2HG	LYS A	27139.803	-5.993	-8.801	1.00	0.00	H
ATOM	342	1HD	LYS A	27140.712	-5.546	-10.838	1.00	0.00	H

ATOM	343	2HD	LYS A	27142.362	-5.850	-10.289	1.00	0.00	H
ATOM	344	1HE	LYS A	27141.897	-8.262	-10.281	1.00	0.00	H
ATOM	345	2HE	LYS A	27140.265	-7.940	-10.867	1.00	0.00	H
ATOM	346	1HZ	LYS A	27142.831	-7.630	-12.284	1.00	0.00	H
ATOM	347	2HZ	LYS A	27141.475	-6.749	-12.776	1.00	0.00	H
ATOM	348	3HZ	LYS A	27141.431	-8.439	-12.781	1.00	0.00	H
ATOM	349	N	GLU A	28144.583	-7.219	-7.294	1.00	0.00	N
ATOM	350	CA	GLU A	28145.772	-7.744	-7.955	1.00	0.00	C
ATOM	351	C	GLU A	28145.696	-9.263	-8.080	1.00	0.00	C
ATOM	352	O	GLU A	28144.649	-9.864	-7.844	1.00	0.00	O
ATOM	353	CB	GLU A	28147.030	-7.343	-7.180	1.00	0.00	C
ATOM	354	CG	GLU A	28148.126	-6.764	-8.060	1.00	0.00	C
ATOM	355	CD	GLU A	28148.802	-5.560	-7.433	1.00	0.00	C
ATOM	356	OE1	GLU A	28149.942	-5.707	-6.944	1.00	0.00	O
ATOM	357	OE2	GLU A	28148.191	-4.471	-7.431	1.00	0.00	O
ATOM	358	H	GLU A	28144.312	-7.593	-6.429	1.00	0.00	H
ATOM	359	HA	GLU A	28145.817	-7.315	-8.945	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.763	-6.603	-6.441	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.424	-8.215	-6.678	1.00	0.00	H
ATOM	362	1HG	GLU A	28148.871	-7.526	-8.233	1.00	0.00	H
ATOM	363	2HG	GLU A	28147.693	-6.465	-9.003	1.00	0.00	H
ATOM	364	N	ASN A	29146.815	-9.877	-8.453	1.00	0.00	N
ATOM	365	CA	ASN A	29146.875	-11.325	-8.608	1.00	0.00	C
ATOM	366	C	ASN A	29146.931	-12.016	-7.247	1.00	0.00	C
ATOM	367	O	ASN A	29146.068	-12.831	-6.920	1.00	0.00	O
ATOM	368	CB	ASN A	29148.093	-11.719	-9.448	1.00	0.00	C
ATOM	369	CG	ASN A	29147.735	-11.979	-10.898	1.00	0.00	C
ATOM	370	OD1	ASN A	29147.584	-13.127	-11.316	1.00	0.00	O
ATOM	371	ND2	ASN A	29147.598	-10.910	-11.674	1.00	0.00	N
ATOM	372	H	ASN A	29147.619	-9.344	-8.626	1.00	0.00	H
ATOM	373	HA	ASN A	29145.978	-11.640	-9.121	1.00	0.00	H

ATOM	374	1HB	ASN A	29148.819	-10.921	-9.413	1.00	0.00	H
ATOM	375	2HB	ASN A	29148.531	-12.617	-9.037	1.00	0.00	H
ATOM	376	1HD2	ASN A	29147.734	-10.027	-11.273	1.00	0.00	H
ATOM	377	2HD2	ASN A	29147.368	-11.049	-12.616	1.00	0.00	H
ATOM	378	N	PRO A	30147.953	-11.697	-6.434	1.00	0.00	N
ATOM	379	CA	PRO A	30148.120	-12.289	-5.105	1.00	0.00	C
ATOM	380	C	PRO A	30147.205	-11.646	-4.063	1.00	0.00	C
ATOM	381	O	PRO A	30147.389	-10.485	-3.701	1.00	0.00	O
ATOM	382	CB	PRO A	30149.583	-11.995	-4.782	1.00	0.00	C
ATOM	383	CG	PRO A	30149.872	-10.721	-5.497	1.00	0.00	C
ATOM	384	CD	PRO A	30149.028	-10.735	-6.746	1.00	0.00	C
ATOM	385	HA	PRO A	30147.959	-13.357	-5.123	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.705	-11.890	-3.714	1.00	0.00	H
ATOM	387	2HB	PRO A	30150.205	-12.800	-5.145	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.602	-9.881	-4.872	1.00	0.00	H
ATOM	389	2HG	PRO A	30150.920	-10.674	-5.754	1.00	0.00	H
ATOM	390	1HD	PRO A	30148.621	-9.752	-6.936	1.00	0.00	H
ATOM	391	2HD	PRO A	30149.612	-11.070	-7.590	1.00	0.00	H
ATOM	392	N	PRO A	31146.201	-12.393	-3.566	1.00	0.00	N
ATOM	393	CA	PRO A	31145.261	-11.880	-2.562	1.00	0.00	C
ATOM	394	C	PRO A	31145.954	-11.524	-1.252	1.00	0.00	C
ATOM	395	O	PRO A	31146.396	-12.403	-0.513	1.00	0.00	O
ATOM	396	CB	PRO A	31144.280	-13.041	-2.347	1.00	0.00	C
ATOM	397	CG	PRO A	31144.464	-13.934	-3.527	1.00	0.00	C
ATOM	398	CD	PRO A	31145.900	-13.784	-3.937	1.00	0.00	C
ATOM	399	HA	PRO A	31144.725	-11.017	-2.930	1.00	0.00	H
ATOM	400	1HB	PRO A	31144.523	-13.553	-1.427	1.00	0.00	H
ATOM	401	2HB	PRO A	31143.272	-12.660	-2.297	1.00	0.00	H
ATOM	402	1HG	PRO A	31144.257	-14.958	-3.251	1.00	0.00	H
ATOM	403	2HG	PRO A	31143.812	-13.622	-4.330	1.00	0.00	H
ATOM	404	1HD	PRO A	31146.524	-14.474	-3.389	1.00	0.00	H

ATOM	405	2HD	PRO	A	31146.009	-13.933	-5.000	1.00	0.00	H
ATOM	406	N	PHE	A	32146.045	-10.228	-0.969	1.00	0.00	N
ATOM	407	CA	PHE	A	32146.685	-9.757	0.254	1.00	0.00	C
ATOM	408	C	PHE	A	32145.819	-8.715	0.955	1.00	0.00	C
ATOM	409	O	PHE	A	32144.887	-8.169	0.365	1.00	0.00	O
ATOM	410	CB	PHE	A	32148.062	-9.169	-0.058	1.00	0.00	C
ATOM	411	CG	PHE	A	32148.060	-8.215	-1.219	1.00	0.00	C
ATOM	412	CD1	PHE	A	32148.759	-8.514	-2.377	1.00	0.00	C
ATOM	413	CD2	PHE	A	32147.362	-7.020	-1.150	1.00	0.00	C
ATOM	414	CE1	PHE	A	32148.759	-7.640	-3.448	1.00	0.00	C
ATOM	415	CE2	PHE	A	32147.359	-6.142	-2.217	1.00	0.00	C
ATOM	416	CZ	PHE	A	32148.059	-6.452	-3.368	1.00	0.00	C
ATOM	417	H	PHE	A	32145.674	-9.573	-1.596	1.00	0.00	H
ATOM	418	HA	PHE	A	32146.807	-10.605	0.911	1.00	0.00	H
ATOM	419	1HB	PHE	A	32148.421	-8.635	0.809	1.00	0.00	H
ATOM	420	2HB	PHE	A	32148.746	-9.973	-0.287	1.00	0.00	H
ATOM	421	HD1	PHE	A	32149.306	-9.443	-2.442	1.00	0.00	H
ATOM	422	HD2	PHE	A	32146.815	-6.776	-0.252	1.00	0.00	H
ATOM	423	HE1	PHE	A	32149.308	-7.885	-4.346	1.00	0.00	H
ATOM	424	HE2	PHE	A	32146.811	-5.213	-2.153	1.00	0.00	H
ATOM	425	HZ	PHE	A	32148.059	-5.767	-4.202	1.00	0.00	H
ATOM	426	N	TYR	A	33146.135	-8.443	2.217	1.00	0.00	N
ATOM	427	CA	TYR	A	33145.387	-7.466	2.999	1.00	0.00	C
ATOM	428	C	TYR	A	33146.331	-6.522	3.736	1.00	0.00	C
ATOM	429	O	TYR	A	33147.344	-6.948	4.290	1.00	0.00	O
ATOM	430	CB	TYR	A	33144.472	-8.176	3.999	1.00	0.00	C
ATOM	431	CG	TYR	A	33143.246	-8.794	3.366	1.00	0.00	C
ATOM	432	CD1	TYR	A	33142.976	-10.149	3.508	1.00	0.00	C
ATOM	433	CD2	TYR	A	33142.360	-8.023	2.625	1.00	0.00	C
ATOM	434	CE1	TYR	A	33141.857	-10.718	2.931	1.00	0.00	C
ATOM	435	CE2	TYR	A	33141.238	-8.584	2.045	1.00	0.00	C

ATOM	436	CZ	TYR A	33140.992	-9.931	2.200	1.00	0.00	C
ATOM	437	OH	TYR A	33139.875	-10.494	1.624	1.00	0.00	O
ATOM	438	H	TYR A	33146.890	-8.911	2.633	1.00	0.00	H
ATOM	439	HA	TYR A	33144.781	-6.890	2.316	1.00	0.00	H
ATOM	440	1HB	TYR A	33145.026	-8.963	4.486	1.00	0.00	H
ATOM	441	2HB	TYR A	33144.141	-7.464	4.740	1.00	0.00	H
ATOM	442	HD1	TYR A	33143.656	-10.763	4.081	1.00	0.00	H
ATOM	443	HD2	TYR A	33142.556	-6.968	2.505	1.00	0.00	H
ATOM	444	HE1	TYR A	33141.663	-11.774	3.053	1.00	0.00	H
ATOM	445	HE2	TYR A	33140.561	-7.968	1.472	1.00	0.00	H
ATOM	446	HH	TYR A	33140.098	-11.360	1.275	1.00	0.00	H
ATOM	447	N	GLY A	34145.991	-5.237	3.739	1.00	0.00	N
ATOM	448	CA	GLY A	34146.818	-4.253	4.412	1.00	0.00	C
ATOM	449	C	GLY A	34146.029	-3.038	4.858	1.00	0.00	C
ATOM	450	O	GLY A	34144.844	-2.911	4.549	1.00	0.00	O
ATOM	451	H	GLY A	34145.172	-4.955	3.281	1.00	0.00	H
ATOM	452	1HA	GLY A	34147.272	-4.712	5.278	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.599	-3.933	3.737	1.00	0.00	H
ATOM	454	N	VAL A	35146.687	-2.143	5.588	1.00	0.00	N
ATOM	455	CA	VAL A	35146.038	-0.932	6.079	1.00	0.00	C
ATOM	456	C	VAL A	35146.696	0.316	5.500	1.00	0.00	C
ATOM	457	O	VAL A	35147.920	0.388	5.382	1.00	0.00	O
ATOM	458	CB	VAL A	35146.078	-0.860	7.619	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.514	-0.810	8.119	1.00	0.00	C
ATOM	460	CG2	VAL A	35145.288	0.341	8.119	1.00	0.00	C
ATOM	461	H	VAL A	35147.629	-2.300	5.802	1.00	0.00	H
ATOM	462	HA	VAL A	35145.004	-0.959	5.767	1.00	0.00	H
ATOM	463	HB	VAL A	35145.616	-1.754	8.012	1.00	0.00	H
ATOM	464	1HG1	VAL A	35147.617	-1.449	8.984	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.765	0.205	8.391	1.00	0.00	H
ATOM	466	3HG1	VAL A	35148.179	-1.148	7.339	1.00	0.00	H

ATOM	467	1HG2	VAL A	35144.239	0.197	7.903	1.00	0.00	H
ATOM	468	2HG2	VAL A	35145.637	1.234	7.622	1.00	0.00	H
ATOM	469	3HG2	VAL A	35145.425	0.444	9.185	1.00	0.00	H
ATOM	470	N	ILE A	36145.876	1.300	5.143	1.00	0.00	N
ATOM	471	CA	ILE A	36146.379	2.546	4.577	1.00	0.00	C
ATOM	472	C	ILE A	36147.308	3.255	5.558	1.00	0.00	C
ATOM	473	O	ILE A	36147.020	3.340	6.751	1.00	0.00	O
ATOM	474	CB	ILE A	36145.228	3.498	4.194	1.00	0.00	C
ATOM	475	CG1	ILE A	36144.210	2.776	3.308	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.772	4.732	3.486	1.00	0.00	C
ATOM	477	CD1	ILE A	36143.058	3.654	2.872	1.00	0.00	C
ATOM	478	H	ILE A	36144.911	1.184	5.262	1.00	0.00	H
ATOM	479	HA	ILE A	36146.934	2.305	3.681	1.00	0.00	H
ATOM	480	HB	ILE A	36144.741	3.820	5.102	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.706	2.416	2.420	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.801	1.936	3.852	1.00	0.00	H
ATOM	483	1HG2	ILE A	36145.242	5.607	3.832	1.00	0.00	H
ATOM	484	2HG2	ILE A	36145.632	4.626	2.420	1.00	0.00	H
ATOM	485	3HG2	ILE A	36146.824	4.838	3.702	1.00	0.00	H
ATOM	486	1HD1	ILE A	36142.131	3.246	3.251	1.00	0.00	H
ATOM	487	2HD1	ILE A	36143.021	3.690	1.794	1.00	0.00	H
ATOM	488	3HD1	ILE A	36143.197	4.651	3.263	1.00	0.00	H
ATOM	489	N	ARG A	37148.425	3.761	5.045	1.00	0.00	N
ATOM	490	CA	ARG A	37149.398	4.463	5.876	1.00	0.00	C
ATOM	491	C	ARG A	37149.620	5.885	5.372	1.00	0.00	C
ATOM	492	O	ARG A	37149.301	6.854	6.060	1.00	0.00	O
ATOM	493	CB	ARG A	37150.725	3.703	5.895	1.00	0.00	C
ATOM	494	CG	ARG A	37150.572	2.216	6.176	1.00	0.00	C
ATOM	495	CD	ARG A	37150.497	1.937	7.668	1.00	0.00	C
ATOM	496	NE	ARG A	37149.266	2.455	8.261	1.00	0.00	N
ATOM	497	CZ	ARG A	37149.103	2.662	9.566	1.00	0.00	C

ATOM	498	NH1	ARG A	37150.087	2.396	10.417	1.00	0.00	N
ATOM	499	NH2	ARG A	37147.951	3.135	10.023	1.00	0.00	N
ATOM	500	H	ARG A	37148.601	3.660	4.086	1.00	0.00	H
ATOM	501	HA	ARG A	37149.005	4.507	6.880	1.00	0.00	H
ATOM	502	1HB	ARG A	37151.206	3.817	4.934	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.359	4.128	6.658	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.665	1.864	5.709	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.421	1.692	5.762	1.00	0.00	H
ATOM	506	1HD	ARG A	37150.539	0.870	7.824	1.00	0.00	H
ATOM	507	2HD	ARG A	37151.343	2.404	8.151	1.00	0.00	H
ATOM	508	HE	ARG A	37148.523	2.659	7.656	1.00	0.00	H
ATOM	509	1HH1	ARG A	37150.957	2.038	10.079	1.00	0.00	H
ATOM	510	2HH1	ARG A	37149.958	2.554	11.395	1.00	0.00	H
ATOM	511	1HH2	ARG A	37147.206	3.338	9.387	1.00	0.00	H
ATOM	512	2HH2	ARG A	37147.828	3.291	11.003	1.00	0.00	H
ATOM	513	N	TRP A	38150.168	6.003	4.168	1.00	0.00	N
ATOM	514	CA	TRP A	38150.433	7.308	3.573	1.00	0.00	C
ATOM	515	C	TRP A	38149.677	7.472	2.256	1.00	0.00	C
ATOM	516	O	TRP A	38149.724	6.600	1.389	1.00	0.00	O
ATOM	517	CB	TRP A	38151.937	7.494	3.343	1.00	0.00	C
ATOM	518	CG	TRP A	38152.271	8.679	2.486	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.549	9.947	2.909	1.00	0.00	C
ATOM	520	CD2	TRP A	38152.356	8.706	1.056	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.802	10.760	1.830	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.689	10.021	0.681	1.00	0.00	C
ATOM	523	CE3	TRP A	38152.183	7.745	0.057	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.852	10.398	-0.650	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.345	8.119	-1.263	1.00	0.00	C
ATOM	526	CH2	TRP A	38152.676	9.435	-1.607	1.00	0.00	C
ATOM	527	H	TRP A	38150.401	5.193	3.666	1.00	0.00	H
ATOM	528	HA	TRP A	38150.089	8.062	4.266	1.00	0.00	H

ATOM	529	1HB	TRP A	38152.427	7.624	4.296	1.00	0.00	H
ATOM	530	2HB	TRP A	38152.331	6.611	2.860	1.00	0.00	H
ATOM	531	HD1	TRP A	38152.564	10.253	3.945	1.00	0.00	H
ATOM	532	HE1	TRP A	38153.026	11.713	1.876	1.00	0.00	H
ATOM	533	HE3	TRP A	38151.927	6.725	0.301	1.00	0.00	H
ATOM	534	HZ2	TRP A	38153.105	11.409	-0.931	1.00	0.00	H
ATOM	535	HZ3	TRP A	38152.214	7.389	-2.050	1.00	0.00	H
ATOM	536	HH2	TRP A	38152.793	9.683	-2.653	1.00	0.00	H
ATOM	537	N	ILE A	39148.993	8.601	2.114	1.00	0.00	N
ATOM	538	CA	ILE A	39148.236	8.890	0.902	1.00	0.00	C
ATOM	539	C	ILE A	39148.716	10.190	0.268	1.00	0.00	C
ATOM	540	O	ILE A	39148.434	11.278	0.771	1.00	0.00	O
ATOM	541	CB	ILE A	39146.726	8.999	1.193	1.00	0.00	C
ATOM	542	CG1	ILE A	39146.253	7.793	2.006	1.00	0.00	C
ATOM	543	CG2	ILE A	39145.943	9.110	-0.106	1.00	0.00	C
ATOM	544	CD1	ILE A	39144.821	7.908	2.482	1.00	0.00	C
ATOM	545	H	ILE A	39149.002	9.259	2.839	1.00	0.00	H
ATOM	546	HA	ILE A	39148.392	8.079	0.207	1.00	0.00	H
ATOM	547	HB	ILE A	39146.556	9.898	1.765	1.00	0.00	H
ATOM	548	1HG1	ILE A	39146.329	6.904	1.398	1.00	0.00	H
ATOM	549	2HG1	ILE A	39146.885	7.682	2.876	1.00	0.00	H
ATOM	550	1HG2	ILE A	39146.511	8.664	-0.909	1.00	0.00	H
ATOM	551	2HG2	ILE A	39145.761	10.151	-0.328	1.00	0.00	H
ATOM	552	3HG2	ILE A	39145.000	8.593	-0.003	1.00	0.00	H
ATOM	553	1HD1	ILE A	39144.804	8.363	3.462	1.00	0.00	H
ATOM	554	2HD1	ILE A	39144.379	6.925	2.534	1.00	0.00	H
ATOM	555	3HD1	ILE A	39144.261	8.520	1.790	1.00	0.00	H
ATOM	556	N	GLY A	40149.446	10.073	-0.836	1.00	0.00	N
ATOM	557	CA	GLY A	40149.956	11.250	-1.512	1.00	0.00	C
ATOM	558	C	GLY A	40150.450	10.954	-2.913	1.00	0.00	C
ATOM	559	O	GLY A	40150.200	9.877	-3.455	1.00	0.00	O

ATOM	560	H	GLY A	40149.644	9.181	-1.192	1.00	0.00	H
ATOM	561	1HA	GLY A	40149.172	11.988	-1.567	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.774	11.655	-0.934	1.00	0.00	H
ATOM	563	N	GLN A	41151.151	11.918	-3.503	1.00	0.00	N
ATOM	564	CA	GLN A	41151.682	11.767	-4.850	1.00	0.00	C
ATOM	565	C	GLN A	41153.178	12.077	-4.881	1.00	0.00	C
ATOM	566	O	GLN A	41153.587	13.211	-4.627	1.00	0.00	O
ATOM	567	CB	GLN A	41150.936	12.694	-5.810	1.00	0.00	C
ATOM	568	CG	GLN A	41149.424	12.612	-5.681	1.00	0.00	C
ATOM	569	CD	GLN A	41148.756	13.969	-5.779	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.808	14.769	-4.846	1.00	0.00	O
ATOM	571	NE2	GLN A	41148.124	14.235	-6.916	1.00	0.00	N
ATOM	572	H	GLN A	41151.313	12.753	-3.019	1.00	0.00	H
ATOM	573	HA	GLN A	41151.527	10.744	-5.158	1.00	0.00	H
ATOM	574	1HB	GLN A	41151.236	13.711	-5.614	1.00	0.00	H
ATOM	575	2HB	GLN A	41151.205	12.436	-6.822	1.00	0.00	H
ATOM	576	1HG	GLN A	41149.040	11.982	-6.470	1.00	0.00	H
ATOM	577	2HG	GLN A	41149.179	12.175	-4.724	1.00	0.00	H
ATOM	578	1HE2	GLN A	41148.124	13.549	-7.616	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.685	15.106	-7.009	1.00	0.00	H
ATOM	580	N	PRO A	42154.020	11.075	-5.191	1.00	0.00	N
ATOM	581	CA	PRO A	42155.475	11.257	-5.248	1.00	0.00	C
ATOM	582	C	PRO A	42155.883	12.348	-6.233	1.00	0.00	C
ATOM	583	O	PRO A	42155.116	12.706	-7.128	1.00	0.00	O
ATOM	584	CB	PRO A	42155.994	9.893	-5.715	1.00	0.00	C
ATOM	585	CG	PRO A	42154.914	8.931	-5.358	1.00	0.00	C
ATOM	586	CD	PRO A	42153.628	9.690	-5.508	1.00	0.00	C
ATOM	587	HA	PRO A	42155.882	11.485	-4.274	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.167	9.916	-6.781	1.00	0.00	H
ATOM	589	2HB	PRO A	42156.914	9.659	-5.200	1.00	0.00	H
ATOM	590	1HG	PRO A	42154.933	8.088	-6.033	1.00	0.00	H

ATOM	591	2HG	PRO A	42155.037	8.600	-4.338	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.259	9.615	-6.520	1.00	0.00	H
ATOM	593	2HD	PRO A	42152.890	9.327	-4.806	1.00	0.00	H
ATOM	594	N	PRO A	43157.103	12.891	-6.082	1.00	0.00	N
ATOM	595	CA	PRO A	43157.611	13.946	-6.963	1.00	0.00	C
ATOM	596	C	PRO A	43157.953	13.424	-8.354	1.00	0.00	C
ATOM	597	O	PRO A	43159.092	13.042	-8.621	1.00	0.00	O
ATOM	598	CB	PRO A	43158.874	14.427	-6.250	1.00	0.00	C
ATOM	599	CG	PRO A	43159.327	13.252	-5.454	1.00	0.00	C
ATOM	600	CD	PRO A	43158.079	12.520	-5.041	1.00	0.00	C
ATOM	601	HA	PRO A	43156.908	14.763	-7.049	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.613	14.718	-6.982	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.636	15.266	-5.615	1.00	0.00	H
ATOM	604	1HG	PRO A	43159.951	12.615	-6.063	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.871	13.587	-4.583	1.00	0.00	H
ATOM	606	1HD	PRO A	43158.252	11.454	-5.037	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.751	12.855	-4.068	1.00	0.00	H
ATOM	608	N	GLY A	44156.960	13.410	-9.236	1.00	0.00	N
ATOM	609	CA	GLY A	44157.179	12.932	-10.588	1.00	0.00	C
ATOM	610	C	GLY A	44155.901	12.471	-11.257	1.00	0.00	C
ATOM	611	O	GLY A	44155.595	12.885	-12.375	1.00	0.00	O
ATOM	612	H	GLY A	44156.072	13.725	-8.968	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.612	13.728	-11.173	1.00	0.00	H
ATOM	614	2HA	GLY A	44157.875	12.105	-10.556	1.00	0.00	H
ATOM	615	N	LEU A	45155.154	11.611	-10.574	1.00	0.00	N
ATOM	616	CA	LEU A	45153.902	11.095	-11.112	1.00	0.00	C
ATOM	617	C	LEU A	45152.735	11.431	-10.190	1.00	0.00	C
ATOM	618	O	LEU A	45152.647	10.916	-9.076	1.00	0.00	O
ATOM	619	CB	LEU A	45153.993	9.580	-11.306	1.00	0.00	C
ATOM	620	CG	LEU A	45154.530	8.806	-10.099	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.083	7.352	-10.154	1.00	0.00	C

ATOM	622	CD2	LEU	A	45156.049	8.900	-10.039	1.00	0.00	C
ATOM	623	H	LEU	A	45155.450	11.319	-9.685	1.00	0.00	H
ATOM	624	HA	LEU	A	45153.734	11.562	-12.070	1.00	0.00	H
ATOM	625	1HB	LEU	A	45153.006	9.208	-11.537	1.00	0.00	H
ATOM	626	2HB	LEU	A	45154.640	9.384	-12.147	1.00	0.00	H
ATOM	627	HG	LEU	A	45154.131	9.243	-9.196	1.00	0.00	H
ATOM	628	1HD1	LEU	A	45153.399	7.155	-9.341	1.00	0.00	H
ATOM	629	2HD1	LEU	A	45154.943	6.705	-10.064	1.00	0.00	H
ATOM	630	3HD1	LEU	A	45153.587	7.161	-11.094	1.00	0.00	H
ATOM	631	1HD2	LEU	A	45156.481	7.939	-10.273	1.00	0.00	H
ATOM	632	2HD2	LEU	A	45156.351	9.197	-9.044	1.00	0.00	H
ATOM	633	3HD2	LEU	A	45156.395	9.634	-10.752	1.00	0.00	H
ATOM	634	N	ASN	A	46151.839	12.293	-10.660	1.00	0.00	N
ATOM	635	CA	ASN	A	46150.682	12.685	-9.866	1.00	0.00	C
ATOM	636	C	ASN	A	46149.666	11.550	-9.807	1.00	0.00	C
ATOM	637	O	ASN	A	46148.992	11.253	-10.792	1.00	0.00	O
ATOM	638	CB	ASN	A	46150.034	13.937	-10.460	1.00	0.00	C
ATOM	639	CG	ASN	A	46149.364	14.797	-9.406	1.00	0.00	C
ATOM	640	OD1	ASN	A	46149.991	15.199	-8.426	1.00	0.00	O
ATOM	641	ND2	ASN	A	46148.083	15.083	-9.604	1.00	0.00	N
ATOM	642	H	ASN	A	46151.958	12.670	-11.556	1.00	0.00	H
ATOM	643	HA	ASN	A	46151.023	12.904	-8.865	1.00	0.00	H
ATOM	644	1HB	ASN	A	46150.792	14.529	-10.950	1.00	0.00	H
ATOM	645	2HB	ASN	A	46149.290	13.640	-11.184	1.00	0.00	H
ATOM	646	1HD2	ASN	A	46147.648	14.729	-10.408	1.00	0.00	H
ATOM	647	2HD2	ASN	A	46147.625	15.639	-8.939	1.00	0.00	H
ATOM	648	N	GLU	A	47149.563	10.920	-8.642	1.00	0.00	N
ATOM	649	CA	GLU	A	47148.631	9.817	-8.447	1.00	0.00	C
ATOM	650	C	GLU	A	47148.480	9.494	-6.965	1.00	0.00	C
ATOM	651	O	GLU	A	47149.455	9.161	-6.291	1.00	0.00	O
ATOM	652	CB	GLU	A	47149.104	8.574	-9.206	1.00	0.00	C

ATOM	653	CG	GLU A	47150.611	8.372	-9.178	1.00	0.00	C
ATOM	654	CD	GLU A	47151.090	7.413	-10.250	1.00	0.00	C
ATOM	655	OE1	GLU A	47151.384	6.246	-9.915	1.00	0.00	O
ATOM	656	OE2	GLU A	47151.171	7.829	-11.425	1.00	0.00	O
ATOM	657	H	GLU A	47150.130	11.205	-7.896	1.00	0.00	H
ATOM	658	HA	GLU A	47147.671	10.122	-8.836	1.00	0.00	H
ATOM	659	1HB	GLU A	47148.638	7.703	-8.771	1.00	0.00	H
ATOM	660	2HB	GLU A	47148.793	8.658	-10.237	1.00	0.00	H
ATOM	661	1HG	GLU A	47151.093	9.326	-9.329	1.00	0.00	H
ATOM	662	2HG	GLU A	47150.892	7.978	-8.212	1.00	0.00	H
ATOM	663	N	VAL A	48147.255	9.585	-6.461	1.00	0.00	N
ATOM	664	CA	VAL A	48146.988	9.294	-5.059	1.00	0.00	C
ATOM	665	C	VAL A	48147.302	7.836	-4.743	1.00	0.00	C
ATOM	666	O	VAL A	48146.505	6.943	-5.029	1.00	0.00	O
ATOM	667	CB	VAL A	48145.522	9.585	-4.689	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.318	9.474	-3.186	1.00	0.00	C
ATOM	669	CG2	VAL A	48145.108	10.959	-5.192	1.00	0.00	C
ATOM	670	H	VAL A	48146.514	9.850	-7.045	1.00	0.00	H
ATOM	671	HA	VAL A	48147.625	9.928	-4.458	1.00	0.00	H
ATOM	672	HB	VAL A	48144.897	8.846	-5.169	1.00	0.00	H
ATOM	673	1HG1	VAL A	48145.394	8.440	-2.887	1.00	0.00	H
ATOM	674	2HG1	VAL A	48144.339	9.853	-2.928	1.00	0.00	H
ATOM	675	3HG1	VAL A	48146.073	10.054	-2.677	1.00	0.00	H
ATOM	676	1HG2	VAL A	48144.413	11.403	-4.495	1.00	0.00	H
ATOM	677	2HG2	VAL A	48144.636	10.861	-6.158	1.00	0.00	H
ATOM	678	3HG2	VAL A	48145.981	11.589	-5.280	1.00	0.00	H
ATOM	679	N	LEU A	49148.472	7.601	-4.156	1.00	0.00	N
ATOM	680	CA	LEU A	49148.892	6.250	-3.807	1.00	0.00	C
ATOM	681	C	LEU A	49148.847	6.042	-2.299	1.00	0.00	C
ATOM	682	O	LEU A	49149.562	6.707	-1.549	1.00	0.00	O
ATOM	683	CB	LEU A	49150.306	5.982	-4.327	1.00	0.00	C

ATOM	684	CG	LEU A	49150.455	6.034	-5.849	1.00	0.00	C
ATOM	685	CD1	LEU A	49151.876	6.420	-6.232	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.080	4.696	-6.467	1.00	0.00	C
ATOM	687	H	LEU A	49149.066	8.354	-3.954	1.00	0.00	H
ATOM	688	HA	LEU A	49148.208	5.558	-4.274	1.00	0.00	H
ATOM	689	1HB	LEU A	49150.971	6.715	-3.896	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.610	5.002	-3.992	1.00	0.00	H
ATOM	691	HG	LEU A	49149.787	6.786	-6.245	1.00	0.00	H
ATOM	692	1HD1	LEU A	49152.135	7.354	-5.757	1.00	0.00	H
ATOM	693	2HD1	LEU A	49151.942	6.530	-7.304	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.559	5.649	-5.906	1.00	0.00	H
ATOM	695	1HD2	LEU A	49149.173	4.330	-6.007	1.00	0.00	H
ATOM	696	2HD2	LEU A	49150.878	3.987	-6.303	1.00	0.00	H
ATOM	697	3HD2	LEU A	49149.920	4.821	-7.527	1.00	0.00	H
ATOM	698	N	ALAA	50148.001	5.118	-1.861	1.00	0.00	N
ATOM	699	CA	ALAA	50147.865	4.827	-0.441	1.00	0.00	C
ATOM	700	C	ALAA	50148.802	3.700	-0.019	1.00	0.00	C
ATOM	701	O	ALAA	50148.655	2.561	-0.462	1.00	0.00	O
ATOM	702	CB	ALAA	50146.423	4.471	-0.111	1.00	0.00	C
ATOM	703	H	ALAA	50147.456	4.621	-2.506	1.00	0.00	H
ATOM	704	HA	ALAA	50148.124	5.723	0.106	1.00	0.00	H
ATOM	705	1HB	ALAA	50146.405	3.738	0.682	1.00	0.00	H
ATOM	706	2HB	ALAA	50145.943	4.063	-0.988	1.00	0.00	H
ATOM	707	3HB	ALAA	50145.896	5.358	0.208	1.00	0.00	H
ATOM	708	N	GLYA	51149.764	4.024	0.838	1.00	0.00	N
ATOM	709	CA	GLYA	51150.710	3.029	1.304	1.00	0.00	C
ATOM	710	C	GLYA	51150.071	2.011	2.229	1.00	0.00	C
ATOM	711	O	GLYA	51149.790	2.310	3.390	1.00	0.00	O
ATOM	712	H	GLYA	51149.832	4.950	1.156	1.00	0.00	H
ATOM	713	1HA	GLYA	51151.122	2.512	0.450	1.00	0.00	H
ATOM	714	2HA	GLYA	51151.510	3.526	1.830	1.00	0.00	H

ATOM	715	N	LEU A	52149.841	0.808	1.715	1.00	0.00	N
ATOM	716	CA	LEU A	52149.231	-0.256	2.503	1.00	0.00	C
ATOM	717	C	LEU A	52150.296	-1.119	3.171	1.00	0.00	C
ATOM	718	O	LEU A	52151.352	-1.377	2.594	1.00	0.00	O
ATOM	719	CB	LEU A	52148.333	-1.124	1.619	1.00	0.00	C
ATOM	720	CG	LEU A	52147.158	-0.390	0.972	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.581	-1.211	-0.171	1.00	0.00	C
ATOM	722	CD2	LEU A	52146.085	-0.087	2.006	1.00	0.00	C
ATOM	723	H	LEU A	52150.088	0.631	0.782	1.00	0.00	H
ATOM	724	HA	LEU A	52148.627	0.206	3.271	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.942	-1.551	0.835	1.00	0.00	H
ATOM	726	2HB	LEU A	52147.938	-1.928	2.223	1.00	0.00	H
ATOM	727	HG	LEU A	52147.507	0.548	0.565	1.00	0.00	H
ATOM	728	1HD1	LEU A	52145.819	-1.874	0.211	1.00	0.00	H
ATOM	729	2HD1	LEU A	52147.367	-1.793	-0.630	1.00	0.00	H
ATOM	730	3HD1	LEU A	52146.147	-0.550	-0.906	1.00	0.00	H
ATOM	731	1HD2	LEU A	52145.114	-0.103	1.534	1.00	0.00	H
ATOM	732	2HD2	LEU A	52146.261	0.891	2.432	1.00	0.00	H
ATOM	733	3HD2	LEU A	52146.118	-0.831	2.789	1.00	0.00	H
ATOM	734	N	GLU A	53150.010	-1.565	4.390	1.00	0.00	N
ATOM	735	CA	GLU A	53150.943	-2.400	5.137	1.00	0.00	C
ATOM	736	C	GLU A	53150.426	-3.831	5.244	1.00	0.00	C
ATOM	737	O	GLU A	53149.452	-4.099	5.948	1.00	0.00	O
ATOM	738	CB	GLU A	53151.171	-1.823	6.535	1.00	0.00	C
ATOM	739	CG	GLU A	53152.170	-2.613	7.365	1.00	0.00	C
ATOM	740	CD	GLU A	53151.776	-2.697	8.827	1.00	0.00	C
ATOM	741	OE1	GLU A	53152.274	-3.607	9.524	1.00	0.00	O
ATOM	742	OE2	GLU A	53150.970	-1.856	9.275	1.00	0.00	O
ATOM	743	H	GLU A	53149.151	-1.326	4.797	1.00	0.00	H
ATOM	744	HA	GLU A	53151.882	-2.409	4.604	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.536	-0.811	6.440	1.00	0.00	H

ATOM	746	2HB	GLU A	53150.229	-1.809	7.064	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.236	-3.615	6.968	1.00	0.00	H
ATOM	748	2HG	GLU A	53153.135	-2.134	7.295	1.00	0.00	H
ATOM	749	N	LEU A	54151.083	-4.747	4.540	1.00	0.00	N
ATOM	750	CA	LEU A	54150.690	-6.152	4.556	1.00	0.00	C
ATOM	751	C	LEU A	54150.936	-6.770	5.929	1.00	0.00	C
ATOM	752	O	LEU A	54151.987	-6.563	6.535	1.00	0.00	O
ATOM	753	CB	LEU A	54151.460	-6.929	3.488	1.00	0.00	C
ATOM	754	CG	LEU A	54151.434	-6.309	2.090	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.561	-6.869	1.236	1.00	0.00	C
ATOM	756	CD2	LEU A	54150.087	-6.552	1.425	1.00	0.00	C
ATOM	757	H	LEU A	54151.852	-4.472	3.997	1.00	0.00	H
ATOM	758	HA	LEU A	54149.635	-6.202	4.335	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.490	-7.011	3.805	1.00	0.00	H
ATOM	760	2HB	LEU A	54151.042	-7.922	3.424	1.00	0.00	H
ATOM	761	HG	LEU A	54151.578	-5.241	2.175	1.00	0.00	H
ATOM	762	1HD1	LEU A	54153.480	-6.863	1.804	1.00	0.00	H
ATOM	763	2HD1	LEU A	54152.680	-6.260	0.352	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.324	-7.882	0.947	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.633	-7.438	1.847	1.00	0.00	H
ATOM	766	2HD2	LEU A	54150.229	-6.692	0.364	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.443	-5.702	1.595	1.00	0.00	H
ATOM	768	N	GLU A	55149.958	-7.528	6.413	1.00	0.00	N
ATOM	769	CA	GLU A	55150.067	-8.176	7.715	1.00	0.00	C
ATOM	770	C	GLU A	55151.139	-9.261	7.696	1.00	0.00	C
ATOM	771	O	GLU A	55151.836	-9.478	8.686	1.00	0.00	O
ATOM	772	CB	GLU A	55148.722	-8.779	8.123	1.00	0.00	C
ATOM	773	CG	GLU A	55147.657	-7.739	8.430	1.00	0.00	C
ATOM	774	CD	GLU A	55146.711	-7.512	7.268	1.00	0.00	C
ATOM	775	OE1	GLU A	55146.763	-6.420	6.663	1.00	0.00	O
ATOM	776	OE2	GLU A	55145.916	-8.426	6.962	1.00	0.00	O

ATOM	777	H	GLU A	55149.144	-7.655	5.884	1.00	0.00	H
ATOM	778	HA	GLU A	55150.347	-7.424	8.437	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.361	-9.404	7.319	1.00	0.00	H
ATOM	780	2HB	GLU A	55148.864	-9.388	9.003	1.00	0.00	H
ATOM	781	1HG	GLU A	55147.083	-8.069	9.283	1.00	0.00	H
ATOM	782	2HG	GLU A	55148.143	-6.803	8.667	1.00	0.00	H
ATOM	783	N	ASP A	56151.263	-9.943	6.561	1.00	0.00	N
ATOM	784	CA	ASP A	56152.251	-11.006	6.412	1.00	0.00	C
ATOM	785	C	ASP A	56153.446	-10.528	5.596	1.00	0.00	C
ATOM	786	O	ASP A	56153.285	-9.897	4.551	1.00	0.00	O
ATOM	787	CB	ASP A	56151.617	-12.228	5.745	1.00	0.00	C
ATOM	788	CG	ASP A	56151.036	-13.201	6.753	1.00	0.00	C
ATOM	789	OD1	ASP A	56149.897	-13.665	6.541	1.00	0.00	O
ATOM	790	OD2	ASP A	56151.722	-13.498	7.754	1.00	0.00	O
ATOM	791	H	ASP A	56150.678	-9.724	5.806	1.00	0.00	H
ATOM	792	HA	ASP A	56152.591	-11.281	7.399	1.00	0.00	H
ATOM	793	1HB	ASP A	56150.825	-11.902	5.089	1.00	0.00	H
ATOM	794	2HB	ASP A	56152.370	-12.744	5.167	1.00	0.00	H
ATOM	795	N	GLU A	57154.646	-10.834	6.078	1.00	0.00	N
ATOM	796	CA	GLU A	57155.870	-10.436	5.392	1.00	0.00	C
ATOM	797	C	GLU A	57155.928	-11.034	3.991	1.00	0.00	C
ATOM	798	O	GLU A	57156.352	-12.176	3.810	1.00	0.00	O
ATOM	799	CB	GLU A	57157.095	-10.872	6.197	1.00	0.00	C
ATOM	800	CG	GLU A	57157.104	-10.349	7.624	1.00	0.00	C
ATOM	801	CD	GLU A	57156.564	-11.358	8.618	1.00	0.00	C
ATOM	802	OE1	GLU A	57156.945	-11.284	9.805	1.00	0.00	O
ATOM	803	OE2	GLU A	57155.759	-12.221	8.210	1.00	0.00	O
ATOM	804	H	GLU A	57154.710	-11.339	6.915	1.00	0.00	H
ATOM	805	HA	GLU A	57155.869	-9.359	5.311	1.00	0.00	H
ATOM	806	1HB	GLU A	57157.123	-11.951	6.233	1.00	0.00	H
ATOM	807	2HB	GLU A	57157.985	-10.514	5.700	1.00	0.00	H

ATOM	808	1HG	GLU A	57158.120	-10.105	7.898	1.00	0.00	H
ATOM	809	2HG	GLU A	57156.496	-9.458	7.671	1.00	0.00	H
ATOM	810	N	CYS A	58155.499	-10.256	3.003	1.00	0.00	N
ATOM	811	CA	CYS A	58155.502	-10.709	1.617	1.00	0.00	C
ATOM	812	C	CYS A	58156.853	-10.442	0.960	1.00	0.00	C
ATOM	813	O	CYS A	58157.328	-9.307	0.933	1.00	0.00	O
ATOM	814	CB	CYS A	58154.392	-10.013	0.828	1.00	0.00	C
ATOM	815	SG	CYS A	58154.271	-10.539	-0.897	1.00	0.00	S
ATOM	816	H	CYS A	58155.173	-9.355	3.210	1.00	0.00	H
ATOM	817	HA	CYS A	58155.319	-11.773	1.616	1.00	0.00	H
ATOM	818	1HB	CYS A	58153.443	-10.217	1.300	1.00	0.00	H
ATOM	819	2HB	CYS A	58154.570	-8.947	0.835	1.00	0.00	H
ATOM	820	HG	CYS A	58154.021	-11.467	-0.907	1.00	0.00	H
ATOM	821	N	ALA A	59157.466	-11.496	0.431	1.00	0.00	N
ATOM	822	CA	ALA A	59158.762	-11.375	-0.226	1.00	0.00	C
ATOM	823	C	ALA A	59158.686	-10.433	-1.423	1.00	0.00	C
ATOM	824	O	ALA A	59157.969	-10.698	-2.389	1.00	0.00	O
ATOM	825	CB	ALA A	59159.262	-12.744	-0.661	1.00	0.00	C
ATOM	826	H	ALA A	59157.037	-12.376	0.483	1.00	0.00	H
ATOM	827	HA	ALA A	59159.463	-10.974	0.491	1.00	0.00	H
ATOM	828	1HB	ALA A	59160.333	-12.710	-0.800	1.00	0.00	H
ATOM	829	2HB	ALA A	59158.788	-13.021	-1.592	1.00	0.00	H
ATOM	830	3HB	ALA A	59159.020	-13.474	0.097	1.00	0.00	H
ATOM	831	N	GLY A	60159.428	-9.334	-1.352	1.00	0.00	N
ATOM	832	CA	GLY A	60159.430	-8.369	-2.437	1.00	0.00	C
ATOM	833	C	GLY A	60158.687	-7.096	-2.082	1.00	0.00	C
ATOM	834	O	GLY A	60157.935	-6.561	-2.896	1.00	0.00	O
ATOM	835	H	GLY A	60159.979	-9.176	-0.558	1.00	0.00	H
ATOM	836	1HA	GLY A	60160.452	-8.119	-2.680	1.00	0.00	H
ATOM	837	2HA	GLY A	60158.963	-8.816	-3.302	1.00	0.00	H
ATOM	838	N	CYS A	61158.897	-6.610	-0.863	1.00	0.00	N

ATOM	839	CA	CYS A	61158.240	-5.392	-0.402	1.00	0.00	C
ATOM	840	C	CYS A	61159.222	-4.494	0.343	1.00	0.00	C
ATOM	841	O	CYS A	61160.342	-4.903	0.652	1.00	0.00	O
ATOM	842	CB	CYS A	61157.058	-5.738	0.505	1.00	0.00	C
ATOM	843	SG	CYS A	61155.845	-6.842	-0.254	1.00	0.00	S
ATOM	844	H	CYS A	61159.508	-7.081	-0.258	1.00	0.00	H
ATOM	845	HA	CYS A	61157.875	-4.863	-1.270	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.427	-6.219	1.397	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.547	-4.826	0.779	1.00	0.00	H
ATOM	848	HG	CYS A	61154.969	-6.511	-0.042	1.00	0.00	H
ATOM	849	N	THR A	62158.796	-3.268	0.629	1.00	0.00	N
ATOM	850	CA	THR A	62159.637	-2.311	1.338	1.00	0.00	C
ATOM	851	C	THR A	62159.197	-2.171	2.790	1.00	0.00	C
ATOM	852	O	THR A	62158.253	-2.829	3.230	1.00	0.00	O
ATOM	853	CB	THR A	62159.591	-0.949	0.645	1.00	0.00	C
ATOM	854	OG1	THR A	62158.350	-0.308	0.879	1.00	0.00	O
ATOM	855	CG2	THR A	62159.791	-1.031	-0.853	1.00	0.00	C
ATOM	856	H	THR A	62157.894	-3.000	0.357	1.00	0.00	H
ATOM	857	HA	THR A	62160.651	-2.682	1.316	1.00	0.00	H
ATOM	858	HB	THR A	62160.376	-0.325	1.050	1.00	0.00	H
ATOM	859	HG1	THR A	62157.639	-0.850	0.529	1.00	0.00	H
ATOM	860	1HG2	THR A	62158.928	-1.498	-1.305	1.00	0.00	H
ATOM	861	2HG2	THR A	62160.671	-1.618	-1.067	1.00	0.00	H
ATOM	862	3HG2	THR A	62159.913	-0.036	-1.254	1.00	0.00	H
ATOM	863	N	ASP A	63159.886	-1.310	3.533	1.00	0.00	N
ATOM	864	CA	ASP A	63159.564	-1.083	4.937	1.00	0.00	C
ATOM	865	C	ASP A	63158.915	0.283	5.133	1.00	0.00	C
ATOM	866	O	ASP A	63159.079	0.916	6.177	1.00	0.00	O
ATOM	867	CB	ASP A	63160.827	-1.189	5.794	1.00	0.00	C
ATOM	868	CG	ASP A	63161.869	-0.155	5.418	1.00	0.00	C
ATOM	869	OD1	ASP A	63162.279	0.624	6.304	1.00	0.00	O

ATOM	870	OD2	ASP A	63162.277	-0.124	4.237	1.00	0.00	O
ATOM	871	H	ASP A	63160.627	-0.815	3.126	1.00	0.00	H
ATOM	872	HA	ASP A	63158.866	-1.847	5.245	1.00	0.00	H
ATOM	873	1HB	ASP A	63160.564	-1.046	6.832	1.00	0.00	H
ATOM	874	2HB	ASP A	63161.258	-2.171	5.668	1.00	0.00	H
ATOM	875	N	GLY A	64158.180	0.734	4.122	1.00	0.00	N
ATOM	876	CA	GLY A	64157.517	2.023	4.204	1.00	0.00	C
ATOM	877	C	GLY A	64158.203	3.081	3.362	1.00	0.00	C
ATOM	878	O	GLY A	64158.146	4.269	3.680	1.00	0.00	O
ATOM	879	H	GLY A	64158.085	0.187	3.315	1.00	0.00	H
ATOM	880	1HA	GLY A	64156.498	1.913	3.865	1.00	0.00	H
ATOM	881	2HA	GLY A	64157.511	2.347	5.233	1.00	0.00	H
ATOM	882	N	THR A	65158.852	2.650	2.285	1.00	0.00	N
ATOM	883	CA	THR A	65159.552	3.569	1.395	1.00	0.00	C
ATOM	884	C	THR A	65159.130	3.350	-0.054	1.00	0.00	C
ATOM	885	O	THR A	65159.318	2.267	-0.609	1.00	0.00	O
ATOM	886	CB	THR A	65161.065	3.392	1.530	1.00	0.00	C
ATOM	887	OG1	THR A	65161.396	2.023	1.693	1.00	0.00	O
ATOM	888	CG2	THR A	65161.654	4.148	2.700	1.00	0.00	C
ATOM	889	H	THR A	65158.861	1.690	2.085	1.00	0.00	H
ATOM	890	HA	THR A	65159.290	4.576	1.685	1.00	0.00	H
ATOM	891	HB	THR A	65161.541	3.751	0.629	1.00	0.00	H
ATOM	892	HG1	THR A	65161.415	1.594	0.834	1.00	0.00	H
ATOM	893	1HG2	THR A	65160.857	4.539	3.315	1.00	0.00	H
ATOM	894	2HG2	THR A	65162.259	4.965	2.333	1.00	0.00	H
ATOM	895	3HG2	THR A	65162.268	3.482	3.288	1.00	0.00	H
ATOM	896	N	PHE A	66158.560	4.385	-0.663	1.00	0.00	N
ATOM	897	CA	PHE A	66158.112	4.304	-2.048	1.00	0.00	C
ATOM	898	C	PHE A	66159.029	5.108	-2.965	1.00	0.00	C
ATOM	899	O	PHE A	66159.115	6.331	-2.857	1.00	0.00	O
ATOM	900	CB	PHE A	66156.675	4.814	-2.172	1.00	0.00	C

ATOM	901	CG	PHE A	66156.029	4.474	-3.484	1.00	0.00	C
ATOM	902	CD1	PHE A	66155.625	5.475	-4.354	1.00	0.00	C
ATOM	903	CD2	PHE A	66155.826	3.153	-3.849	1.00	0.00	C
ATOM	904	CE1	PHE A	66155.032	5.165	-5.562	1.00	0.00	C
ATOM	905	CE2	PHE A	66155.232	2.836	-5.057	1.00	0.00	C
ATOM	906	CZ	PHE A	66154.834	3.843	-5.914	1.00	0.00	C
ATOM	907	H	PHE A	66158.438	5.222	-0.168	1.00	0.00	H
ATOM	908	HA	PHE A	66158.143	3.268	-2.347	1.00	0.00	H
ATOM	909	1HB	PHE A	66156.077	4.380	-1.385	1.00	0.00	H
ATOM	910	2HB	PHE A	66156.672	5.890	-2.068	1.00	0.00	H
ATOM	911	HD1	PHE A	66155.780	6.509	-4.080	1.00	0.00	H
ATOM	912	HD2	PHE A	66156.137	2.364	-3.179	1.00	0.00	H
ATOM	913	HE1	PHE A	66154.721	5.954	-6.231	1.00	0.00	H
ATOM	914	HE2	PHE A	66155.080	1.803	-5.329	1.00	0.00	H
ATOM	915	HZ	PHE A	66154.371	3.598	-6.858	1.00	0.00	H
ATOM	916	N	ARG A	67159.713	4.411	-3.867	1.00	0.00	N
ATOM	917	CA	ARG A	67160.624	5.059	-4.803	1.00	0.00	C
ATOM	918	C	ARG A	67161.735	5.794	-4.062	1.00	0.00	C
ATOM	919	O	ARG A	67162.174	6.864	-4.482	1.00	0.00	O
ATOM	920	CB	ARG A	67159.858	6.036	-5.698	1.00	0.00	C
ATOM	921	CG	ARG A	67158.819	5.365	-6.581	1.00	0.00	C
ATOM	922	CD	ARG A	67158.307	6.310	-7.654	1.00	0.00	C
ATOM	923	NE	ARG A	67159.178	6.330	-8.827	1.00	0.00	N
ATOM	924	CZ	ARG A	67159.307	5.310	-9.672	1.00	0.00	C
ATOM	925	NH1	ARG A	67158.624	4.189	-9.480	1.00	0.00	N
ATOM	926	NH2	ARG A	67160.122	5.412	-10.714	1.00	0.00	N
ATOM	927	H	ARG A	67159.602	3.438	-3.904	1.00	0.00	H
ATOM	928	HA	ARG A	67161.066	4.291	-5.420	1.00	0.00	H
ATOM	929	1HB	ARG A	67159.357	6.759	-5.074	1.00	0.00	H
ATOM	930	2HB	ARG A	67160.564	6.549	-6.336	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.266	4.504	-7.056	1.00	0.00	H

ATOM	932	2HG	ARG A	67157.989	5.048	-5.965	1.00	0.00	H
ATOM	933	1HD	ARG A	67157.321	5.990	-7.957	1.00	0.00	H
ATOM	934	2HD	ARG A	67158.250	7.306	-7.242	1.00	0.00	H
ATOM	935	HE	ARG A	67159.695	7.147	-8.993	1.00	0.00	H
ATOM	936	1HH1	ARG A	67158.008	4.106	-8.697	1.00	0.00	H
ATOM	937	2HH1	ARG A	67158.725	3.426	-10.119	1.00	0.00	H
ATOM	938	1HH2	ARG A	67160.639	6.254	-10.864	1.00	0.00	H
ATOM	939	2HH2	ARG A	67160.219	4.646	-11.348	1.00	0.00	H
ATOM	940	N	GLY A	68162.187	5.212	-2.955	1.00	0.00	N
ATOM	941	CA	GLY A	68163.243	5.827	-2.173	1.00	0.00	C
ATOM	942	C	GLY A	68162.762	7.037	-1.396	1.00	0.00	C
ATOM	943	O	GLY A	68163.536	7.953	-1.119	1.00	0.00	O
ATOM	944	H	GLY A	68161.800	4.359	-2.667	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.632	5.098	-1.478	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.037	6.132	-2.838	1.00	0.00	H
ATOM	947	N	THR A	69161.481	7.040	-1.044	1.00	0.00	N
ATOM	948	CA	THR A	69160.897	8.147	-0.295	1.00	0.00	C
ATOM	949	C	THR A	69160.046	7.632	0.861	1.00	0.00	C
ATOM	950	O	THR A	69158.867	7.323	0.687	1.00	0.00	O
ATOM	951	CB	THR A	69160.049	9.023	-1.217	1.00	0.00	C
ATOM	952	OG1	THR A	69160.737	9.293	-2.425	1.00	0.00	O
ATOM	953	CG2	THR A	69159.669	10.351	-0.598	1.00	0.00	C
ATOM	954	H	THR A	69160.914	6.280	-1.294	1.00	0.00	H
ATOM	955	HA	THR A	69161.706	8.738	0.105	1.00	0.00	H
ATOM	956	HB	THR A	69159.135	8.498	-1.457	1.00	0.00	H
ATOM	957	HG1	THR A	69161.578	9.711	-2.228	1.00	0.00	H
ATOM	958	1HG2	THR A	69160.045	11.156	-1.213	1.00	0.00	H
ATOM	959	2HG2	THR A	69160.099	10.423	0.390	1.00	0.00	H
ATOM	960	3HG2	THR A	69158.594	10.423	-0.530	1.00	0.00	H
ATOM	961	N	ARG A	70160.651	7.542	2.041	1.00	0.00	N
ATOM	962	CA	ARG A	70159.949	7.064	3.226	1.00	0.00	C

ATOM	963	C	ARG A	70158.808	8.005	3.600	1.00	0.00	C
ATOM	964	O	ARG A	70158.979	9.224	3.623	1.00	0.00	O
ATOM	965	CB	ARG A	70160.920	6.931	4.401	1.00	0.00	C
ATOM	966	CG	ARG A	70160.340	6.178	5.588	1.00	0.00	C
ATOM	967	CD	ARG A	70160.741	6.817	6.909	1.00	0.00	C
ATOM	968	NE	ARG A	70161.752	6.032	7.613	1.00	0.00	N
ATOM	969	CZ	ARG A	70163.055	6.085	7.344	1.00	0.00	C
ATOM	970	NH1	ARG A	70163.511	6.883	6.385	1.00	0.00	N
ATOM	971	NH2	ARG A	70163.905	5.337	8.033	1.00	0.00	N
ATOM	972	H	ARG A	70161.592	7.802	2.115	1.00	0.00	H
ATOM	973	HA	ARG A	70159.538	6.091	2.999	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.803	6.407	4.066	1.00	0.00	H
ATOM	975	2HB	ARG A	70161.203	7.920	4.732	1.00	0.00	H
ATOM	976	1HG	ARG A	70159.263	6.180	5.511	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.703	5.159	5.566	1.00	0.00	H
ATOM	978	1HD	ARG A	70161.136	7.802	6.714	1.00	0.00	H
ATOM	979	2HD	ARG A	70159.863	6.899	7.533	1.00	0.00	H
ATOM	980	HE	ARG A	70161.444	5.432	8.325	1.00	0.00	H
ATOM	981	1HH1	ARG A	70162.877	7.450	5.861	1.00	0.00	H
ATOM	982	2HH1	ARG A	70164.491	6.919	6.190	1.00	0.00	H
ATOM	983	1HH2	ARG A	70163.567	4.734	8.756	1.00	0.00	H
ATOM	984	2HH2	ARG A	70164.884	5.377	7.832	1.00	0.00	H
ATOM	985	N	TYR A	71157.646	7.431	3.890	1.00	0.00	N
ATOM	986	CA	TYR A	71156.476	8.218	4.264	1.00	0.00	C
ATOM	987	C	TYR A	71156.055	7.920	5.700	1.00	0.00	C
ATOM	988	O	TYR A	71155.648	8.817	6.437	1.00	0.00	O
ATOM	989	CB	TYR A	71155.316	7.932	3.309	1.00	0.00	C
ATOM	990	CG	TYR A	71155.479	8.569	1.948	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.397	7.809	0.788	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.717	9.933	1.823	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.547	8.389	-0.457	1.00	0.00	C

ATOM	994	CE2 TYR A	71155.867	10.520	0.581	1.00	0.00	C
ATOM	995	CZ TYR A	71155.781	9.745	-0.555	1.00	0.00	C
ATOM	996	OH TYR A	71155.931	10.325	-1.793	1.00	0.00	O
ATOM	997	H TYR A	71157.572	6.454	3.855	1.00	0.00	H
ATOM	998	HA TYR A	71156.742	9.262	4.190	1.00	0.00	H
ATOM	999	1HB TYR A	71155.232	6.864	3.166	1.00	0.00	H
ATOM	1000	2HB TYR A	71154.401	8.305	3.744	1.00	0.00	H
ATOM	1001	HD1 TYR A	71155.213	6.748	0.869	1.00	0.00	H
ATOM	1002	HD2 TYR A	71155.785	10.538	2.716	1.00	0.00	H
ATOM	1003	HE1 TYR A	71155.480	7.781	-1.347	1.00	0.00	H
ATOM	1004	HE2 TYR A	71156.051	11.581	0.506	1.00	0.00	H
ATOM	1005	HH TYR A	71155.460	11.161	-1.814	1.00	0.00	H
ATOM	1006	N PHE A	72156.155	6.653	6.089	1.00	0.00	N
ATOM	1007	CA PHE A	72155.784	6.235	7.436	1.00	0.00	C
ATOM	1008	C PHE A	72156.783	5.220	7.984	1.00	0.00	C
ATOM	1009	O PHE A	72157.758	4.872	7.320	1.00	0.00	O
ATOM	1010	CB PHE A	72154.378	5.635	7.437	1.00	0.00	C
ATOM	1011	CG PHE A	72154.144	4.648	6.328	1.00	0.00	C
ATOM	1012	CD1 PHE A	72153.812	5.083	5.055	1.00	0.00	C
ATOM	1013	CD2 PHE A	72154.258	3.287	6.559	1.00	0.00	C
ATOM	1014	CE1 PHE A	72153.598	4.179	4.033	1.00	0.00	C
ATOM	1015	CE2 PHE A	72154.045	2.378	5.541	1.00	0.00	C
ATOM	1016	CZ PHE A	72153.714	2.824	4.276	1.00	0.00	C
ATOM	1017	H PHE A	72156.486	5.982	5.455	1.00	0.00	H
ATOM	1018	HA PHE A	72155.795	7.110	8.068	1.00	0.00	H
ATOM	1019	1HB PHE A	72154.212	5.125	8.375	1.00	0.00	H
ATOM	1020	2HB PHE A	72153.654	6.431	7.333	1.00	0.00	H
ATOM	1021	HD1 PHE A	72153.721	6.142	4.864	1.00	0.00	H
ATOM	1022	HD2 PHE A	72154.517	2.937	7.548	1.00	0.00	H
ATOM	1023	HE1 PHE A	72153.338	4.530	3.045	1.00	0.00	H
ATOM	1024	HE2 PHE A	72154.137	1.319	5.734	1.00	0.00	H

ATOM	1025	HZ	PHE A	72153.547	2.115	3.479	1.00	0.00	H
ATOM	1026	N	THR A	73156.533	4.750	9.202	1.00	0.00	N
ATOM	1027	CA	THR A	73157.409	3.775	9.840	1.00	0.00	C
ATOM	1028	C	THR A	73156.665	2.470	10.108	1.00	0.00	C
ATOM	1029	O	THR A	73155.816	2.398	10.997	1.00	0.00	O
ATOM	1030	CB	THR A	73157.964	4.337	11.151	1.00	0.00	C
ATOM	1031	OG1	THR A	73157.040	5.231	11.743	1.00	0.00	O
ATOM	1032	CG2	THR A	73159.273	5.077	10.977	1.00	0.00	C
ATOM	1033	H	THR A	73155.738	5.066	9.682	1.00	0.00	H
ATOM	1034	HA	THR A	73158.230	3.576	9.168	1.00	0.00	H
ATOM	1035	HB	THR A	73158.133	3.520	11.837	1.00	0.00	H
ATOM	1036	HG1	THR A	73157.405	5.572	12.564	1.00	0.00	H
ATOM	1037	1HG2	THR A	73159.290	5.554	10.008	1.00	0.00	H
ATOM	1038	2HG2	THR A	73160.093	4.377	11.048	1.00	0.00	H
ATOM	1039	3HG2	THR A	73159.369	5.824	11.749	1.00	0.00	H
ATOM	1040	N	CYS A	74156.991	1.440	9.335	1.00	0.00	N
ATOM	1041	CA	CYS A	74156.354	0.138	9.488	1.00	0.00	C
ATOM	1042	C	CYS A	74157.390	-0.982	9.465	1.00	0.00	C
ATOM	1043	O	CYS A	74158.591	-0.728	9.368	1.00	0.00	O
ATOM	1044	CB	CYS A	74155.323	-0.083	8.379	1.00	0.00	C
ATOM	1045	SG	CYS A	74153.706	0.652	8.718	1.00	0.00	S
ATOM	1046	H	CYS A	74157.676	1.559	8.643	1.00	0.00	H
ATOM	1047	HA	CYS A	74155.850	0.125	10.442	1.00	0.00	H
ATOM	1048	1HB	CYS A	74155.694	0.350	7.462	1.00	0.00	H
ATOM	1049	2HB	CYS A	74155.180	-1.144	8.237	1.00	0.00	H
ATOM	1050	HG	CYS A	74153.749	1.078	9.577	1.00	0.00	H
ATOM	1051	N	ALAA	75156.918	-2.220	9.553	1.00	0.00	N
ATOM	1052	CA	ALAA	75157.803	-3.378	9.542	1.00	0.00	C
ATOM	1053	C	ALAA	75158.397	-3.602	8.156	1.00	0.00	C
ATOM	1054	O	ALAA	75157.882	-3.095	7.160	1.00	0.00	O
ATOM	1055	CB	ALAA	75157.053	-4.619	10.004	1.00	0.00	C

ATOM 1056 H ALA A 75155.951 -2.359 9.628 1.00 0.00 H
 ATOM 1057 HA ALA A 75158.605 -3.190 10.241 1.00 0.00 H
 ATOM 1058 1HB ALA A 75157.153 -4.723 11.074 1.00 0.00 H
 ATOM 1059 2HB ALA A 75157.466 -5.490 9.518 1.00 0.00 H
 ATOM 1060 3HB ALA A 75156.008 -4.525 9.747 1.00 0.00 H
 ATOM 1061 N LEU A 76159.484 -4.366 8.100 1.00 0.00 N
 ATOM 1062 CA LEU A 76160.148 -4.658 6.836 1.00 0.00 C
 ATOM 1063 C LEU A 76159.378 -5.712 6.046 1.00 0.00 C
 ATOM 1064 O LEU A 76158.795 -6.631 6.623 1.00 0.00 O
 ATOM 1065 CB LEU A 76161.579 -5.137 7.087 1.00 0.00 C
 ATOM 1066 CG LEU A 76162.627 -4.025 7.176 1.00 0.00 C
 ATOM 1067 CD1 LEU A 76163.728 -4.406 8.153 1.00 0.00 C
 ATOM 1068 CD2 LEU A 76163.208 -3.731 5.802 1.00 0.00 C
 ATOM 1069 H LEU A 76159.846 -4.742 8.929 1.00 0.00 H
 ATOM 1070 HA LEU A 76160.179 -3.745 6.259 1.00 0.00 H
 ATOM 1071 1HB LEU A 76161.593 -5.692 8.013 1.00 0.00 H
 ATOM 1072 2HB LEU A 76161.861 -5.800 6.284 1.00 0.00 H
 ATOM 1073 HG LEU A 76162.155 -3.124 7.541 1.00 0.00 H
 ATOM 1074 1HD1 LEU A 76164.661 -3.965 7.834 1.00 0.00 H
 ATOM 1075 2HD1 LEU A 76163.828 -5.481 8.180 1.00 0.00 H
 ATOM 1076 3HD1 LEU A 76163.476 -4.044 9.139 1.00 0.00 H
 ATOM 1077 1HD2 LEU A 76164.135 -4.272 5.681 1.00 0.00 H
 ATOM 1078 2HD2 LEU A 76163.395 -2.671 5.708 1.00 0.00 H
 ATOM 1079 3HD2 LEU A 76162.508 -4.041 5.040 1.00 0.00 H
 ATOM 1080 N LYS A 77159.379 -5.572 4.724 1.00 0.00 N
 ATOM 1081 CA LYS A 77158.681 -6.513 3.857 1.00 0.00 C
 ATOM 1082 C LYS A 77157.188 -6.536 4.170 1.00 0.00 C
 ATOM 1083 O LYS A 77156.545 -7.584 4.103 1.00 0.00 O
 ATOM 1084 CB LYS A 77159.268 -7.917 4.011 1.00 0.00 C
 ATOM 1085 CG LYS A 77160.742 -8.002 3.648 1.00 0.00 C
 ATOM 1086 CD LYS A 77160.936 -8.190 2.152 1.00 0.00 C

ATOM	1087	CE	LYS A	77162.179	-7.470	1.656	1.00	0.00	C
ATOM	1088	NZ	LYS A	77162.702	-8.067	0.396	1.00	0.00	N
ATOM	1089	H	LYS A	77159.861	-4.819	4.324	1.00	0.00	H
ATOM	1090	HA	LYS A	77158.816	-6.185	2.837	1.00	0.00	H
ATOM	1091	1HB	LYS A	77159.154	-8.231	5.038	1.00	0.00	H
ATOM	1092	2HB	LYS A	77158.722	-8.595	3.373	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.232	-7.089	3.952	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.183	-8.840	4.168	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.036	-9.245	1.942	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.073	-7.799	1.634	1.00	0.00	H
ATOM	1097	1HE	LYS A	77161.932	-6.434	1.478	1.00	0.00	H
ATOM	1098	2HE	LYS A	77162.943	-7.531	2.418	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77162.608	-9.102	0.425	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77163.706	-7.824	0.274	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77162.168	-7.703	-0.419	1.00	0.00	H
ATOM	1102	N	LYS A	78156.643	-5.373	4.513	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.224	-5.259	4.837	1.00	0.00	C
ATOM	1104	C	LYS A	78154.686	-3.886	4.449	1.00	0.00	C
ATOM	1105	O	LYS A	78153.863	-3.308	5.158	1.00	0.00	O
ATOM	1106	CB	LYS A	78155.000	-5.505	6.330	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.513	-6.854	6.809	1.00	0.00	C
ATOM	1108	CD	LYS A	78155.303	-7.030	8.304	1.00	0.00	C
ATOM	1109	CE	LYS A	78154.065	-7.862	8.598	1.00	0.00	C
ATOM	1110	NZ	LYS A	78153.334	-7.367	9.797	1.00	0.00	N
ATOM	1111	H	LYS A	78157.206	-4.572	4.548	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.695	-6.012	4.274	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.507	-4.732	6.890	1.00	0.00	H
ATOM	1114	2HB	LYS A	78153.942	-5.453	6.537	1.00	0.00	H
ATOM	1115	1HG	LYS A	78154.984	-7.636	6.285	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.570	-6.924	6.592	1.00	0.00	H
ATOM	1117	1HD	LYS A	78156.165	-7.526	8.723	1.00	0.00	H

ATOM	1118	2HD	LYS A	78155.188	-6.057	8.759	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.407	-7.820	7.743	1.00	0.00	H
ATOM	1120	2HE	LYS A	78154.367	-8.886	8.768	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78152.990	-6.399	9.630	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78153.965	-7.361	10.623	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78152.521	-7.982	9.999	1.00	0.00	H
ATOM	1124	N	ALAA	79155.156	-3.369	3.318	1.00	0.00	N
ATOM	1125	CA	ALAA	79154.722	-2.064	2.836	1.00	0.00	C
ATOM	1126	C	ALAA	79154.543	-2.070	1.322	1.00	0.00	C
ATOM	1127	O	ALAA	79155.517	-1.992	0.571	1.00	0.00	O
ATOM	1128	CB	ALAA	79155.720	-0.992	3.247	1.00	0.00	C
ATOM	1129	H	ALAA	79155.811	-3.879	2.796	1.00	0.00	H
ATOM	1130	HA	ALAA	79153.774	-1.837	3.299	1.00	0.00	H
ATOM	1131	1HB	ALAA	79155.219	-0.036	3.300	1.00	0.00	H
ATOM	1132	2HB	ALAA	79156.515	-0.941	2.518	1.00	0.00	H
ATOM	1133	3HB	ALAA	79156.133	-1.237	4.214	1.00	0.00	H
ATOM	1134	N	LEU A	80153.294	-2.162	0.878	1.00	0.00	N
ATOM	1135	CA	LEU A	80152.988	-2.178	-0.548	1.00	0.00	C
ATOM	1136	C	LEU A	80152.143	-0.968	-0.936	1.00	0.00	C
ATOM	1137	O	LEU A	80150.992	-0.842	-0.519	1.00	0.00	O
ATOM	1138	CB	LEU A	80152.252	-3.467	-0.919	1.00	0.00	C
ATOM	1139	CG	LEU A	80151.835	-3.574	-2.387	1.00	0.00	C
ATOM	1140	CD1	LEU A	80153.048	-3.819	-3.270	1.00	0.00	C
ATOM	1141	CD2	LEU A	80150.809	-4.683	-2.568	1.00	0.00	C
ATOM	1142	H	LEU A	80152.561	-2.220	1.525	1.00	0.00	H
ATOM	1143	HA	LEU A	80153.922	-2.138	-1.088	1.00	0.00	H
ATOM	1144	1HB	LEU A	80152.896	-4.303	-0.687	1.00	0.00	H
ATOM	1145	2HB	LEU A	80151.364	-3.538	-0.309	1.00	0.00	H
ATOM	1146	HG	LEU A	80151.381	-2.644	-2.693	1.00	0.00	H
ATOM	1147	1HD1	LEU A	80153.457	-2.872	-3.590	1.00	0.00	H
ATOM	1148	2HD1	LEU A	80152.753	-4.394	-4.136	1.00	0.00	H

ATOM 1149 3HD1 LEU A 80153.796 -4.364 -2.713 1.00 0.00 H
 ATOM 1150 1HD2 LEU A 80150.935 -5.134 -3.541 1.00 0.00 H
 ATOM 1151 2HD2 LEU A 80149.814 -4.270 -2.488 1.00 0.00 H
 ATOM 1152 3HD2 LEU A 80150.950 -5.432 -1.803 1.00 0.00 H
 ATOM 1153 N PHE A 81152.723 -0.082 -1.739 1.00 0.00 N
 ATOM 1154 CA PHE A 81152.024 1.117 -2.185 1.00 0.00 C
 ATOM 1155 C PHE A 81151.158 0.819 -3.405 1.00 0.00 C
 ATOM 1156 O PHE A 81151.569 0.089 -4.307 1.00 0.00 O
 ATOM 1157 CB PHE A 81153.027 2.224 -2.515 1.00 0.00 C
 ATOM 1158 CG PHE A 81153.688 2.816 -1.303 1.00 0.00 C
 ATOM 1159 CD1 PHE A 81153.308 4.060 -0.828 1.00 0.00 C
 ATOM 1160 CD2 PHE A 81154.690 2.126 -0.639 1.00 0.00 C
 ATOM 1161 CE1 PHE A 81153.915 4.607 0.287 1.00 0.00 C
 ATOM 1162 CE2 PHE A 81155.300 2.668 0.477 1.00 0.00 C
 ATOM 1163 CZ PHE A 81154.912 3.909 0.941 1.00 0.00 C
 ATOM 1164 H PHE A 81153.643 -0.239 -2.039 1.00 0.00 H
 ATOM 1165 HA PHE A 81151.388 1.449 -1.379 1.00 0.00 H
 ATOM 1166 1HB PHE A 81153.800 1.822 -3.151 1.00 0.00 H
 ATOM 1167 2HB PHE A 81152.515 3.020 -3.037 1.00 0.00 H
 ATOM 1168 HD1 PHE A 81152.527 4.606 -1.338 1.00 0.00 H
 ATOM 1169 HD2 PHE A 81154.995 1.156 -1.000 1.00 0.00 H
 ATOM 1170 HE1 PHE A 81153.609 5.579 0.647 1.00 0.00 H
 ATOM 1171 HE2 PHE A 81156.080 2.121 0.985 1.00 0.00 H
 ATOM 1172 HZ PHE A 81155.388 4.335 1.812 1.00 0.00 H
 ATOM 1173 N VAL A 82149.959 1.389 -3.427 1.00 0.00 N
 ATOM 1174 CA VAL A 82149.035 1.184 -4.535 1.00 0.00 C
 ATOM 1175 C VAL A 82148.156 2.412 -4.753 1.00 0.00 C
 ATOM 1176 O VAL A 82148.101 3.306 -3.909 1.00 0.00 O
 ATOM 1177 CB VAL A 82148.134 -0.041 -4.297 1.00 0.00 C
 ATOM 1178 CG1 VAL A 82148.953 -1.322 -4.333 1.00 0.00 C
 ATOM 1179 CG2 VAL A 82147.392 0.090 -2.976 1.00 0.00 C

ATOM	1180	H	VAL A	82149.687	1.962	-2.677	1.00	0.00	H
ATOM	1181	HA	VAL A	82149.619	1.009	-5.427	1.00	0.00	H
ATOM	1182	HB	VAL A	82147.404	-0.087	-5.093	1.00	0.00	H
ATOM	1183	1HG1	VAL A	82148.303	-2.170	-4.174	1.00	0.00	H
ATOM	1184	2HG1	VAL A	82149.702	-1.292	-3.555	1.00	0.00	H
ATOM	1185	3HG1	VAL A	82149.436	-1.415	-5.295	1.00	0.00	H
ATOM	1186	1HG2	VAL A	82147.988	-0.338	-2.185	1.00	0.00	H
ATOM	1187	2HG2	VAL A	82146.449	-0.432	-3.039	1.00	0.00	H
ATOM	1188	3HG2	VAL A	82147.212	1.134	-2.767	1.00	0.00	H
ATOM	1189	N	LYS A	83147.471	2.448	-5.891	1.00	0.00	N
ATOM	1190	CA	LYS A	83146.594	3.565	-6.221	1.00	0.00	C
ATOM	1191	C	LYS A	83145.381	3.596	-5.299	1.00	0.00	C
ATOM	1192	O	LYS A	83144.624	2.629	-5.217	1.00	0.00	O
ATOM	1193	CB	LYS A	83146.139	3.470	-7.679	1.00	0.00	C
ATOM	1194	CG	LYS A	83147.278	3.584	-8.680	1.00	0.00	C
ATOM	1195	CD	LYS A	83146.839	3.163	-10.073	1.00	0.00	C
ATOM	1196	CE	LYS A	83147.457	4.048	-11.143	1.00	0.00	C
ATOM	1197	NZ	LYS A	83147.818	3.274	-12.363	1.00	0.00	N
ATOM	1198	H	LYS A	83147.557	1.704	-6.524	1.00	0.00	H
ATOM	1199	HA	LYS A	83147.155	4.478	-6.087	1.00	0.00	H
ATOM	1200	1HB	LYS A	83145.649	2.520	-7.830	1.00	0.00	H
ATOM	1201	2HB	LYS A	83145.434	4.265	-7.876	1.00	0.00	H
ATOM	1202	1HG	LYS A	83147.612	4.610	-8.714	1.00	0.00	H
ATOM	1203	2HG	LYS A	83148.090	2.948	-8.359	1.00	0.00	H
ATOM	1204	1HD	LYS A	83147.145	2.142	-10.243	1.00	0.00	H
ATOM	1205	2HD	LYS A	83145.763	3.233	-10.137	1.00	0.00	H
ATOM	1206	1HE	LYS A	83146.748	4.815	-11.411	1.00	0.00	H
ATOM	1207	2HE	LYS A	83148.348	4.506	-10.741	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83148.624	3.721	-12.844	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83147.011	3.243	-13.018	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83148.078	2.300	-12.105	1.00	0.00	H

ATOM 1211 N LEU A 84145.203 4.715 -4.606 1.00 0.00 N
 ATOM 1212 CA LEU A 84144.082 4.880 -3.689 1.00 0.00 C
 ATOM 1213 C LEU A 84142.752 4.717 -4.418 1.00 0.00 C
 ATOM 1214 O LEU A 84141.808 4.136 -3.885 1.00 0.00 O
 ATOM 1215 CB LEU A 84144.149 6.254 -3.018 1.00 0.00 C
 ATOM 1216 CG LEU A 84142.966 6.592 -2.109 1.00 0.00 C
 ATOM 1217 CD1 LEU A 84143.161 5.981 -0.730 1.00 0.00 C
 ATOM 1218 CD2 LEU A 84142.791 8.100 -2.004 1.00 0.00 C
 ATOM 1219 H LEU A 84145.841 5.450 -4.716 1.00 0.00 H
 ATOM 1220 HA LEU A 84144.160 4.115 -2.931 1.00 0.00 H
 ATOM 1221 1HB LEU A 84145.054 6.300 -2.429 1.00 0.00 H
 ATOM 1222 2HB LEU A 84144.206 7.004 -3.793 1.00 0.00 H
 ATOM 1223 HG LEU A 84142.063 6.179 -2.533 1.00 0.00 H
 ATOM 1224 1HD1 LEU A 84142.445 6.406 -0.043 1.00 0.00 H
 ATOM 1225 2HD1 LEU A 84144.162 6.188 -0.382 1.00 0.00 H
 ATOM 1226 3HD1 LEU A 84143.014 4.912 -0.787 1.00 0.00 H
 ATOM 1227 1HD2 LEU A 84142.772 8.530 -2.995 1.00 0.00 H
 ATOM 1228 2HD2 LEU A 84143.614 8.521 -1.445 1.00 0.00 H
 ATOM 1229 3HD2 LEU A 84141.863 8.321 -1.498 1.00 0.00 H
 ATOM 1230 N LYS A 85142.688 5.234 -5.641 1.00 0.00 N
 ATOM 1231 CA LYS A 85141.474 5.146 -6.444 1.00 0.00 C
 ATOM 1232 C LYS A 85141.139 3.693 -6.773 1.00 0.00 C
 ATOM 1233 O LYS A 85139.984 3.356 -7.028 1.00 0.00 O
 ATOM 1234 CB LYS A 85141.633 5.950 -7.735 1.00 0.00 C
 ATOM 1235 CG LYS A 85142.797 5.492 -8.599 1.00 0.00 C
 ATOM 1236 CD LYS A 85143.178 6.548 -9.624 1.00 0.00 C
 ATOM 1237 CE LYS A 85144.685 6.620 -9.814 1.00 0.00 C
 ATOM 1238 NZ LYS A 85145.077 7.728 -10.729 1.00 0.00 N
 ATOM 1239 H LYS A 85143.474 5.685 -6.012 1.00 0.00 H
 ATOM 1240 HA LYS A 85140.664 5.566 -5.867 1.00 0.00 H
 ATOM 1241 1HB LYS A 85140.726 5.860 -8.316 1.00 0.00 H

ATOM	1242	2HB	LYS A	85141.786	6.989	-7.483	1.00	0.00	H
ATOM	1243	1HG	LYS A	85143.648	5.297	-7.964	1.00	0.00	H
ATOM	1244	2HG	LYS A	85142.515	4.586	-9.115	1.00	0.00	H
ATOM	1245	1HD	LYS A	85142.718	6.301	-10.569	1.00	0.00	H
ATOM	1246	2HD	LYS A	85142.820	7.509	-9.287	1.00	0.00	H
ATOM	1247	1HE	LYS A	85145.149	6.779	-8.852	1.00	0.00	H
ATOM	1248	2HE	LYS A	85145.028	5.683	-10.228	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85146.064	8.004	-10.553	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85144.465	8.553	-10.574	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85144.984	7.423	-11.719	1.00	0.00	H
ATOM	1252	N	SER A	86142.158	2.837	-6.765	1.00	0.00	N
ATOM	1253	CA	SER A	86141.968	1.423	-7.064	1.00	0.00	C
ATOM	1254	C	SER A	86141.945	0.594	-5.782	1.00	0.00	C
ATOM	1255	O	SER A	86142.403	-0.548	-5.762	1.00	0.00	O
ATOM	1256	CB	SER A	86143.077	0.922	-7.990	1.00	0.00	C
ATOM	1257	OG	SER A	86143.061	1.613	-9.227	1.00	0.00	O
ATOM	1258	H	SER A	86143.057	3.164	-6.555	1.00	0.00	H
ATOM	1259	HA	SER A	86141.017	1.314	-7.563	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.035	1.078	-7.518	1.00	0.00	H
ATOM	1261	2HB	SER A	86142.936	-0.133	-8.178	1.00	0.00	H
ATOM	1262	HG	SER A	86142.156	1.684	-9.542	1.00	0.00	H
ATOM	1263	N	CYS A	87141.410	1.178	-4.715	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.328	0.494	-3.430	1.00	0.00	C
ATOM	1265	C	CYS A	87139.877	0.215	-3.053	1.00	0.00	C
ATOM	1266	O	CYS A	87138.984	1.005	-3.360	1.00	0.00	O
ATOM	1267	CB	CYS A	87141.999	1.331	-2.340	1.00	0.00	C
ATOM	1268	SG	CYS A	87143.804	1.366	-2.440	1.00	0.00	S
ATOM	1269	H	CYS A	87141.062	2.090	-4.794	1.00	0.00	H
ATOM	1270	HA	CYS A	87141.851	-0.446	-3.521	1.00	0.00	H
ATOM	1271	1HB	CYS A	87141.648	2.350	-2.411	1.00	0.00	H
ATOM	1272	2HB	CYS A	87141.730	0.931	-1.372	1.00	0.00	H

ATOM 1273 HG_CYS A 87144.150 1.419 -1.547 1.00 0.00 H
 ATOM 1274 N ARG A 88139.650 -0.912 -2.386 1.00 0.00 N
 ATOM 1275 CA ARG A 88138.306 -1.294 -1.967 1.00 0.00 C
 ATOM 1276 C ARG A 88138.213 -1.371 -0.443 1.00 0.00 C
 ATOM 1277 O ARG A 88139.151 -1.815 0.220 1.00 0.00 O
 ATOM 1278 CB ARG A 88137.922 -2.641 -2.582 1.00 0.00 C
 ATOM 1279 CG ARG A 88137.196 -2.517 -3.912 1.00 0.00 C
 ATOM 1280 CD ARG A 88135.691 -2.650 -3.741 1.00 0.00 C
 ATOM 1281 NE ARG A 88135.014 -2.887 -5.014 1.00 0.00 N
 ATOM 1282 CZ ARG A 88135.048 -4.047 -5.667 1.00 0.00 C
 ATOM 1283 NH1 ARG A 88135.722 -5.076 -5.171 1.00 0.00 N
 ATOM 1284 NH2 ARG A 88134.404 -4.178 -6.818 1.00 0.00 N
 ATOM 1285 H ARG A 88140.403 -1.499 -2.170 1.00 0.00 H
 ATOM 1286 HA ARG A 88137.622 -0.538 -2.321 1.00 0.00 H
 ATOM 1287 1HB ARG A 88138.819 -3.221 -2.738 1.00 0.00 H
 ATOM 1288 2HB ARG A 88137.278 -3.168 -1.893 1.00 0.00 H
 ATOM 1289 1HG ARG A 88137.415 -1.551 -4.342 1.00 0.00 H
 ATOM 1290 2HG ARG A 88137.545 -3.296 -4.575 1.00 0.00 H
 ATOM 1291 1HD ARG A 88135.489 -3.478 -3.078 1.00 0.00 H
 ATOM 1292 2HD ARG A 88135.310 -1.739 -3.305 1.00 0.00 H
 ATOM 1293 HE ARG A 88134.509 -2.143 -5.402 1.00 0.00 H
 ATOM 1294 1HH1 ARG A 88136.210 -4.985 -4.303 1.00 0.00 H
 ATOM 1295 2HH1 ARG A 88135.743 -5.945 -5.665 1.00 0.00 H
 ATOM 1296 1HH2 ARG A 88133.894 -3.405 -7.196 1.00 0.00 H
 ATOM 1297 2HH2 ARG A 88134.428 -5.048 -7.309 1.00 0.00 H
 ATOM 1298 N PRO A 89137.078 -0.939 0.135 1.00 0.00 N
 ATOM 1299 CA PRO A 89136.874 -0.966 1.588 1.00 0.00 C
 ATOM 1300 C PRO A 89137.102 -2.352 2.179 1.00 0.00 C
 ATOM 1301 O PRO A 89136.511 -3.334 1.728 1.00 0.00 O
 ATOM 1302 CB PRO A 89135.410 -0.549 1.755 1.00 0.00 C
 ATOM 1303 CG PRO A 89135.090 0.225 0.523 1.00 0.00 C

ATOM	1304	CD	PRO A	89135.907	-0.394	-0.577	1.00	0.00	C
ATOM	1305	HA	PRO A	89137.513	-0.254	2.089	1.00	0.00	H
ATOM	1306	1HB	PRO A	89134.791	-1.430	1.841	1.00	0.00	H
ATOM	1307	2HB	PRO A	89135.305	0.060	2.641	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.037	0.140	0.301	1.00	0.00	H
ATOM	1309	2HG	PRO A	89135.366	1.260	0.658	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.351	-1.180	-1.064	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.206	0.358	-1.292	1.00	0.00	H
ATOM	1312	N	ASP A	90137.960	-2.426	3.190	1.00	0.00	N
ATOM	1313	CA	ASP A	90138.264	-3.694	3.844	1.00	0.00	C
ATOM	1314	C	ASP A	90137.542	-3.802	5.183	1.00	0.00	C
ATOM	1315	O	ASP A	90137.962	-3.209	6.176	1.00	0.00	O
ATOM	1316	CB	ASP A	90139.773	-3.835	4.052	1.00	0.00	C
ATOM	1317	CG	ASP A	90140.201	-5.279	4.220	1.00	0.00	C
ATOM	1318	OD1	ASP A	90140.849	-5.592	5.241	1.00	0.00	O
ATOM	1319	OD2	ASP A	90139.886	-6.098	3.331	1.00	0.00	O
ATOM	1320	H	ASP A	90138.399	-1.609	3.505	1.00	0.00	H
ATOM	1321	HA	ASP A	90137.923	-4.488	3.199	1.00	0.00	H
ATOM	1322	1HB	ASP A	90140.288	-3.423	3.197	1.00	0.00	H
ATOM	1323	2HB	ASP A	90140.061	-3.287	4.937	1.00	0.00	H
ATOM	1324	N	SER A	91136.454	-4.564	5.202	1.00	0.00	N
ATOM	1325	CA	SER A	91135.673	-4.751	6.420	1.00	0.00	C
ATOM	1326	C	SER A	91136.034	-6.066	7.101	1.00	0.00	C
ATOM	1327	O	SER A	91135.196	-6.689	7.753	1.00	0.00	O
ATOM	1328	CB	SER A	91134.177	-4.723	6.101	1.00	0.00	C
ATOM	1329	OG	SER A	91133.431	-4.222	7.197	1.00	0.00	O
ATOM	1330	H	SER A	91136.168	-5.012	4.378	1.00	0.00	H
ATOM	1331	HA	SER A	91135.904	-3.937	7.090	1.00	0.00	H
ATOM	1332	1HB	SER A	91134.005	-4.088	5.245	1.00	0.00	H
ATOM	1333	2HB	SER A	91133.841	-5.725	5.881	1.00	0.00	H
ATOM	1334	HG	SER A	91133.583	-3.278	7.284	1.00	0.00	H

ATOM 1335 N ARG A 92137.285 -6.486 6.944 1.00 0.00 N
 ATOM 1336 CA ARG A 92137.756 -7.728 7.544 1.00 0.00 C
 ATOM 1337 C ARG A 92137.792 -7.619 9.064 1.00 0.00 C
 ATOM 1338 O ARG A 92137.609 -8.610 9.772 1.00 0.00 O
 ATOM 1339 CB ARG A 92139.148 -8.079 7.013 1.00 0.00 C
 ATOM 1340 CG ARG A 92139.143 -8.589 5.580 1.00 0.00 C
 ATOM 1341 CD ARG A 92139.469 -10.073 5.512 1.00 0.00 C
 ATOM 1342 NE ARG A 92138.336 -10.902 5.917 1.00 0.00 N
 ATOM 1343 CZ ARG A 92138.226 -12.197 5.630 1.00 0.00 C
 ATOM 1344 NH1 ARG A 92139.176 -12.813 4.938 1.00 0.00 N
 ATOM 1345 NH2 ARG A 92137.162 -12.877 6.034 1.00 0.00 N
 ATOM 1346 H ARG A 92137.907 -5.946 6.412 1.00 0.00 H
 ATOM 1347 HA ARG A 92137.067 -8.511 7.267 1.00 0.00 H
 ATOM 1348 1HB ARG A 92139.770 -7.197 7.057 1.00 0.00 H
 ATOM 1349 2HB ARG A 92139.579 -8.843 7.644 1.00 0.00 H
 ATOM 1350 1HG ARG A 92138.163 -8.427 5.155 1.00 0.00 H
 ATOM 1351 2HG ARG A 92139.879 -8.040 5.012 1.00 0.00 H
 ATOM 1352 1HD ARG A 92139.739 -10.322 4.497 1.00 0.00 H
 ATOM 1353 2HD ARG A 92140.303 -10.275 6.167 1.00 0.00 H
 ATOM 1354 HE ARG A 92137.620 -10.471 6.430 1.00 0.00 H
 ATOM 1355 1HH1 ARG A 92139.980 -12.307 4.629 1.00 0.00 H
 ATOM 1356 2HH1 ARG A 92139.088 -13.787 4.725 1.00 0.00 H
 ATOM 1357 1HH2 ARG A 92136.443 -12.418 6.556 1.00 0.00 H
 ATOM 1358 2HH2 ARG A 92137.079 -13.850 5.819 1.00 0.00 H
 ATOM 1359 N PHE A 93138.031 -6.410 9.561 1.00 0.00 N
 ATOM 1360 CA PHE A 93138.092 -6.172 10.999 1.00 0.00 C
 ATOM 1361 C PHE A 93136.976 -5.233 11.447 1.00 0.00 C
 ATOM 1362 O PHE A 93137.114 -4.519 12.440 1.00 0.00 O
 ATOM 1363 CB PHE A 93139.451 -5.583 11.381 1.00 0.00 C
 ATOM 1364 CG PHE A 93140.586 -6.559 11.253 1.00 0.00 C
 ATOM 1365 CD1 PHE A 93140.898 -7.122 10.026 1.00 0.00 C

ATOM	1366	CD2	PHE A	93141.340	-6.914	12.361	1.00	0.00	C
ATOM	1367	CE1	PHE A	93141.942	-8.020	9.905	1.00	0.00	C
ATOM	1368	CE2	PHE A	93142.385	-7.811	12.246	1.00	0.00	C
ATOM	1369	CZ	PHE A	93142.686	-8.365	11.017	1.00	0.00	C
ATOM	1370	H	PHE A	93138.170	-5.659	8.947	1.00	0.00	H
ATOM	1371	HA	PHE A	93137.968	-7.122	11.497	1.00	0.00	H
ATOM	1372	1HB	PHE A	93139.664	-4.741	10.740	1.00	0.00	H
ATOM	1373	2HB	PHE A	93139.413	-5.248	12.407	1.00	0.00	H
ATOM	1374	HD1	PHE A	93140.317	-6.853	9.156	1.00	0.00	H
ATOM	1375	HD2	PHE A	93141.105	-6.482	13.322	1.00	0.00	H
ATOM	1376	HE1	PHE A	93142.175	-8.451	8.944	1.00	0.00	H
ATOM	1377	HE2	PHE A	93142.965	-8.079	13.117	1.00	0.00	H
ATOM	1378	HZ	PHE A	93143.502	-9.066	10.925	1.00	0.00	H
ATOM	1379	N	ALAA	94135.869	-5.238	10.710	1.00	0.00	N
ATOM	1380	CA	ALAA	94134.732	-4.386	11.038	1.00	0.00	C
ATOM	1381	C	ALAA	94133.628	-5.181	11.726	1.00	0.00	C
ATOM	1382	O	ALAA	94133.159	-6.193	11.204	1.00	0.00	O
ATOM	1383	CB	ALAA	94134.197	-3.716	9.780	1.00	0.00	C
ATOM	1384	H	ALAA	94135.814	-5.829	9.930	1.00	0.00	H
ATOM	1385	HA	ALAA	94135.077	-3.614	11.709	1.00	0.00	H
ATOM	1386	1HB	ALAA	94133.322	-4.246	9.434	1.00	0.00	H
ATOM	1387	2HB	ALAA	94134.956	-3.732	9.013	1.00	0.00	H
ATOM	1388	3HB	ALAA	94133.932	-2.693	10.004	1.00	0.00	H
ATOM	1389	N	SERA	95133.216	-4.717	12.902	1.00	0.00	N
ATOM	1390	CA	SERA	95132.167	-5.384	13.663	1.00	0.00	C
ATOM	1391	C	SERA	95130.804	-4.767	13.363	1.00	0.00	C
ATOM	1392	O	SERA	95130.659	-3.546	13.331	1.00	0.00	O
ATOM	1393	CB	SERA	95132.460	-5.298	15.162	1.00	0.00	C
ATOM	1394	OG	SERA	95133.403	-6.280	15.554	1.00	0.00	O
ATOM	1395	H	SERA	95133.629	-3.905	13.266	1.00	0.00	H
ATOM	1396	HA	SERA	95132.152	-6.422	13.366	1.00	0.00	H

ATOM 1397 1HB SER A 95132.860 -4.322 15.392 1.00 0.00 H
 ATOM 1398 2HB SER A 95131.546 -5.452 15.714 1.00 0.00 H
 ATOM 1399 HG SER A 95132.941 -7.050 15.894 1.00 0.00 H
 ATOM 1400 N LEU A 96129.809 -5.620 13.143 1.00 0.00 N
 ATOM 1401 CA LEU A 96128.459 -5.157 12.847 1.00 0.00 C
 ATOM 1402 C LEU A 96127.448 -6.288 13.000 1.00 0.00 C
 ATOM 1403 O LEU A 96127.601 -7.357 12.405 1.00 0.00 O
 ATOM 1404 CB LEU A 96128.394 -4.589 11.428 1.00 0.00 C
 ATOM 1405 CG LEU A 96127.019 -4.076 10.997 1.00 0.00 C
 ATOM 1406 CD1 LEU A 96126.635 -2.843 11.801 1.00 0.00 C
 ATOM 1407 CD2 LEU A 96127.009 -3.769 9.507 1.00 0.00 C
 ATOM 1408 H LEU A 96129.987 -6.583 13.183 1.00 0.00 H
 ATOM 1409 HA LEU A 96128.215 -4.375 13.549 1.00 0.00 H
 ATOM 1410 1HB LEU A 96129.099 -3.773 11.358 1.00 0.00 H
 ATOM 1411 2HB LEU A 96128.696 -5.363 10.738 1.00 0.00 H
 ATOM 1412 HG LEU A 96126.281 -4.841 11.187 1.00 0.00 H
 ATOM 1413 1HD1 LEU A 96126.375 -3.136 12.807 1.00 0.00 H
 ATOM 1414 2HD1 LEU A 96125.788 -2.360 11.336 1.00 0.00 H
 ATOM 1415 3HD1 LEU A 96127.468 -2.157 11.829 1.00 0.00 H
 ATOM 1416 1HD2 LEU A 96127.887 -3.195 9.252 1.00 0.00 H
 ATOM 1417 2HD2 LEU A 96126.124 -3.200 9.263 1.00 0.00 H
 ATOM 1418 3HD2 LEU A 96127.008 -4.693 8.949 1.00 0.00 H
 ATOM 1419 N GLN A 97126.414 -6.047 13.800 1.00 0.00 N
 ATOM 1420 CA GLN A 97125.375 -7.044 14.031 1.00 0.00 C
 ATOM 1421 C GLN A 97124.046 -6.595 13.432 1.00 0.00 C
 ATOM 1422 O GLN A 97123.770 -5.398 13.339 1.00 0.00 O
 ATOM 1423 CB GLN A 97125.212 -7.303 15.529 1.00 0.00 C
 ATOM 1424 CG GLN A 97126.300 -8.185 16.117 1.00 0.00 C
 ATOM 1425 CD GLN A 97126.152 -9.640 15.720 1.00 0.00 C
 ATOM 1426 OE1 GLN A 97125.213 -10.317 16.141 1.00 0.00 O
 ATOM 1427 NE2 GLN A 97127.077 -10.129 14.903 1.00 0.00 N

ATOM 1428 H GLN A 97126.347 -5.176 14.244 1.00 0.00 H
 ATOM 1429 HA GLN A 97125.682 -7.961 13.548 1.00 0.00 H
 ATOM 1430 1HB GLN A 97125.225 -6.356 16.050 1.00 0.00 H
 ATOM 1431 2HB GLN A 97124.259 -7.784 15.699 1.00 0.00 H
 ATOM 1432 1HG GLN A 97127.260 -7.830 15.771 1.00 0.00 H
 ATOM 1433 2HG GLN A 97126.260 -8.115 17.196 1.00 0.00 H
 ATOM 1434 1HE2 GLN A 97127.796 -9.531 14.608 1.00 0.00 H
 ATOM 1435 2HE2 GLN A 97127.005 -11.066 14.630 1.00 0.00 H
 ATOM 1436 N PRO A 98123.198 -7.552 13.015 1.00 0.00 N
 ATOM 1437 CA PRO A 98121.892 -7.248 12.423 1.00 0.00 C
 ATOM 1438 C PRO A 98121.064 -6.310 13.296 1.00 0.00 C
 ATOM 1439 O PRO A 98121.520 -5.859 14.346 1.00 0.00 O
 ATOM 1440 CB PRO A 98121.218 -8.617 12.320 1.00 0.00 C
 ATOM 1441 CG PRO A 98122.345 -9.589 12.252 1.00 0.00 C
 ATOM 1442 CD PRO A 98123.448 -9.004 13.089 1.00 0.00 C
 ATOM 1443 HA PRO A 98121.996 -6.819 11.436 1.00 0.00 H
 ATOM 1444 1HB PRO A 98120.603 -8.785 13.193 1.00 0.00 H
 ATOM 1445 2HB PRO A 98120.610 -8.657 11.430 1.00 0.00 H
 ATOM 1446 1HG PRO A 98122.033 -10.541 12.655 1.00 0.00 H
 ATOM 1447 2HG PRO A 98122.671 -9.702 11.228 1.00 0.00 H
 ATOM 1448 1HD PRO A 98123.376 -9.356 14.108 1.00 0.00 H
 ATOM 1449 2HD PRO A 98124.412 -9.251 12.670 1.00 0.00 H
 ATOM 1450 N SER A 99119.844 -6.023 12.855 1.00 0.00 N
 ATOM 1451 CA SER A 99118.951 -5.140 13.597 1.00 0.00 C
 ATOM 1452 C SER A 99117.810 -5.928 14.232 1.00 0.00 C
 ATOM 1453 O SER A 99117.697 -5.997 15.456 1.00 0.00 O
 ATOM 1454 CB SER A 99118.386 -4.058 12.675 1.00 0.00 C
 ATOM 1455 OG SER A 99118.327 -4.512 11.333 1.00 0.00 O
 ATOM 1456 H SER A 99119.535 -6.414 12.011 1.00 0.00 H
 ATOM 1457 HA SER A 99119.527 -4.669 14.379 1.00 0.00 H
 ATOM 1458 1HB SER A 99117.390 -3.797 12.997 1.00 0.00 H

ATOM 1459 2HB SER A 99119.020 -3.184 12.717 1.00 0.00 H
 ATOM 1460 HG SER A 99118.412 -3.764 10.737 1.00 0.00 H
 ATOM 1461 N GLY A 100116.966 -6.519 13.393 1.00 0.00 N
 ATOM 1462 CA GLY A 100115.846 -7.293 13.892 1.00 0.00 C
 ATOM 1463 C GLY A 100114.524 -6.565 13.742 1.00 0.00 C
 ATOM 1464 O GLY A 100114.144 -5.782 14.613 1.00 0.00 O
 ATOM 1465 H GLY A 100117.107 -6.428 12.427 1.00 0.00 H
 ATOM 1466 1HA GLY A 100115.796 -8.225 13.347 1.00 0.00 H
 ATOM 1467 2HA GLY A 100116.009 -7.509 14.937 1.00 0.00 H
 ATOM 1468 N PRO A 101113.793 -6.802 12.638 1.00 0.00 N
 ATOM 1469 CA PRO A 101112.500 -6.153 12.392 1.00 0.00 C
 ATOM 1470 C PRO A 101111.553 -6.277 13.581 1.00 0.00 C
 ATOM 1471 O PRO A 101111.276 -7.378 14.055 1.00 0.00 O
 ATOM 1472 CB PRO A 101111.946 -6.912 11.186 1.00 0.00 C
 ATOM 1473 CG PRO A 101113.151 -7.427 10.478 1.00 0.00 C
 ATOM 1474 CD PRO A 101114.167 -7.720 11.546 1.00 0.00 C
 ATOM 1475 HA PRO A 101112.624 -5.110 12.139 1.00 0.00 H
 ATOM 1476 1HB PRO A 101111.311 -7.718 11.525 1.00 0.00 H
 ATOM 1477 2HB PRO A 101111.380 -6.238 10.561 1.00 0.00 H
 ATOM 1478 1HG PRO A 101112.901 -8.329 9.939 1.00 0.00 H
 ATOM 1479 2HG PRO A 101113.526 -6.676 9.799 1.00 0.00 H
 ATOM 1480 1HD PRO A 101114.093 -8.749 11.865 1.00 0.00 H
 ATOM 1481 2HD PRO A 101115.164 -7.505 11.188 1.00 0.00 H
 ATOM 1482 N SER A 102111.061 -5.138 14.060 1.00 0.00 N
 ATOM 1483 CA SER A 102110.144 -5.120 15.194 1.00 0.00 C
 ATOM 1484 C SER A 102110.802 -5.719 16.434 1.00 0.00 C
 ATOM 1485 O SER A 102110.493 -6.842 16.831 1.00 0.00 O
 ATOM 1486 CB SER A 102108.866 -5.890 14.857 1.00 0.00 C
 ATOM 1487 OG SER A 102107.873 -5.024 14.333 1.00 0.00 O
 ATOM 1488 H SER A 102111.319 -4.292 13.640 1.00 0.00 H
 ATOM 1489 HA SER A 102109.891 -4.091 15.398 1.00 0.00 H

ATOM 1490 1HB SER A 102109.088 -6.647 14.120 1.00 0.00 H
 ATOM 1491 2HB SER A 102108.483 -6.358 15.752 1.00 0.00 H
 ATOM 1492 HG SER A 102108.270 -4.434 13.690 1.00 0.00 H
 ATOM 1493 N SER A 103111.709 -4.961 17.041 1.00 0.00 N
 ATOM 1494 CA SER A 103112.410 -5.416 18.235 1.00 0.00 C
 ATOM 1495 C SER A 103111.554 -5.208 19.481 1.00 0.00 C
 ATOM 1496 O SER A 103110.663 -4.359 19.498 1.00 0.00 O
 ATOM 1497 CB SER A 103113.740 -4.676 18.385 1.00 0.00 C
 ATOM 1498 OG SER A 103114.772 -5.329 17.666 1.00 0.00 O
 ATOM 1499 H SER A 103111.912 -4.075 16.676 1.00 0.00 H
 ATOM 1500 HA SER A 103112.607 -6.472 18.121 1.00 0.00 H
 ATOM 1501 1HB SER A 103113.634 -3.670 18.006 1.00 0.00 H
 ATOM 1502 2HB SER A 103114.013 -4.638 19.430 1.00 0.00 H
 ATOM 1503 HG SER A 103114.839 -6.240 17.960 1.00 0.00 H
 ATOM 1504 N GLY A 104111.832 -5.986 20.520 1.00 0.00 N
 ATOM 1505 CA GLY A 104111.079 -5.871 21.756 1.00 0.00 C
 ATOM 1506 C GLY A 104111.969 -5.896 22.983 1.00 0.00 C
 ATOM 1507 O GLY A 104111.575 -6.523 23.989 1.00 0.00 O
 ATOM 1508 OXT GLY A 104113.061 -5.291 22.937 1.00 0.00 O
 ATOM 1509 H GLY A 104112.555 -6.645 20.449 1.00 0.00 H
 ATOM 1510 1HA GLY A 104110.529 -4.941 21.743 1.00 0.00 H
 ATOM 1511 2HA GLY A 104110.379 -6.691 21.815 1.00 0.00 H
 TER 1512 GLY A 104
 ENDMDL

Three-Dimensional Structure Coordinate Table 10

ATOM 1 N GLY A 1132.485 -2.135 -14.848 1.00 0.00 N
 ATOM 2 CA GLY A 1133.474 -2.831 -13.979 1.00 0.00 C
 ATOM 3 C GLY A 1133.260 -2.538 -12.507 1.00 0.00 C
 ATOM 4 O GLY A 1133.286 -3.446 -11.676 1.00 0.00 O
 ATOM 5 1H GLY A 1132.906 -1.268 -15.244 1.00 0.00 H

ATOM 6 2H GLY A 1131.643 -1.877 -14.296 1.00 0.00 H
 ATOM 7 3H GLY A 1132.197 -2.756 -15.631 1.00 0.00 H
 ATOM 8 1HA GLY A 1133.389 -3.896 -14.138 1.00 0.00 H
 ATOM 9 2HA GLY A 1134.468 -2.515 -14.257 1.00 0.00 H
 ATOM10 N SER A 2133.048 -1.266 -12.184 1.00 0.00 N
 ATOM11 CA SER A 2132.829 -0.855 -10.803 1.00 0.00 C
 ATOM12 C SER A 2131.367 -0.493 -10.568 1.00 0.00 C
 ATOM13 O SER A 2130.763 0.238 -11.354 1.00 0.00 O
 ATOM14 CB SER A 2133.723 0.338 -10.456 1.00 0.00 C
 ATOM15 OG SER A 2133.256 1.523 -11.074 1.00 0.00 O
 ATOM16 H SER A 2133.039 -0.588 -12.892 1.00 0.00 H
 ATOM17 HA SER A 2133.089 -1.686 -10.164 1.00 0.00 H
 ATOM18 1HB SER A 2133.727 0.483 -9.386 1.00 0.00 H
 ATOM19 2HB SER A 2134.729 0.141 -10.795 1.00 0.00 H
 ATOM20 HG SER A 2133.668 2.285 -10.661 1.00 0.00 H
 ATOM21 N SER A 3130.801 -1.010 -9.482 1.00 0.00 N
 ATOM22 CA SER A 3129.408 -0.742 -9.143 1.00 0.00 C
 ATOM23 C SER A 3129.287 0.525 -8.303 1.00 0.00 C
 ATOM24 O SER A 3129.369 0.478 -7.076 1.00 0.00 O
 ATOM25 CB SER A 3128.807 -1.928 -8.388 1.00 0.00 C
 ATOM26 OG SER A 3127.458 -2.142 -8.764 1.00 0.00 O
 ATOM27 H SER A 3131.334 -1.586 -8.893 1.00 0.00 H
 ATOM28 HA SER A 3128.865 -0.602 -10.066 1.00 0.00 H
 ATOM29 1HB SER A 3129.375 -2.820 -8.612 1.00 0.00 H
 ATOM30 2HB SER A 3128.847 -1.734 -7.326 1.00 0.00 H
 ATOM31 HG SER A 3126.975 -1.313 -8.709 1.00 0.00 H
 ATOM32 N GLY A 4129.091 1.657 -8.972 1.00 0.00 N
 ATOM33 CA GLY A 4128.962 2.919 -8.271 1.00 0.00 C
 ATOM34 C GLY A 4128.420 4.023 -9.158 1.00 0.00 C
 ATOM35 O GLY A 4128.458 3.918 -10.383 1.00 0.00 O
 ATOM36 H GLY A 4129.035 1.633 -9.950 1.00 0.00 H

ATOM37 1HA GLY A 4128.293 2.787 -7.432 1.00 0.00 H
 ATOM38 2HA GLY A 4129.932 3.214 -7.901 1.00 0.00 H
 ATOM39 N SER A 5127.915 5.084 -8.537 1.00 0.00 N
 ATOM40 CA SER A 5127.362 6.212 -9.279 1.00 0.00 C
 ATOM41 C SER A 5127.409 7.487 -8.444 1.00 0.00 C
 ATOM42 O SER A 5127.856 8.534 -8.914 1.00 0.00 O
 ATOM43 CB SER A 5125.922 5.916 -9.699 1.00 0.00 C
 ATOM44 OG SER A 5125.076 5.793 -8.569 1.00 0.00 O
 ATOM45 H SER A 5127.913 5.110 -7.558 1.00 0.00 H
 ATOM46 HA SER A 5127.964 6.353 -10.164 1.00 0.00 H
 ATOM47 1HB SER A 5125.558 6.722 -10.319 1.00 0.00 H
 ATOM48 2HB SER A 5125.895 4.993 -10.258 1.00 0.00 H
 ATOM49 HG SER A 5124.212 6.159 -8.774 1.00 0.00 H
 ATOM50 N SER A 6126.945 7.394 -7.202 1.00 0.00 N
 ATOM51 CA SER A 6126.933 8.540 -6.301 1.00 0.00 C
 ATOM52 C SER A 6128.282 8.699 -5.606 1.00 0.00 C
 ATOM53 O SER A 6129.041 7.739 -5.475 1.00 0.00 O
 ATOM54 CB SER A 6125.824 8.385 -5.259 1.00 0.00 C
 ATOM55 OG SER A 6125.843 7.091 -4.683 1.00 0.00 O
 ATOM56 H SER A 6126.601 6.532 -6.884 1.00 0.00 H
 ATOM57 HA SER A 6126.740 9.423 -6.892 1.00 0.00 H
 ATOM58 1HB SER A 6125.965 9.115 -4.475 1.00 0.00 H
 ATOM59 2HB SER A 6124.866 8.543 -5.731 1.00 0.00 H
 ATOM60 HG SER A 6126.724 6.899 -4.353 1.00 0.00 H
 ATOM61 N GLY A 7128.574 9.917 -5.163 1.00 0.00 N
 ATOM62 CA GLY A 7129.830 10.179 -4.487 1.00 0.00 C
 ATOM63 C GLY A 7129.885 11.568 -3.882 1.00 0.00 C
 ATOM64 O GLY A 7130.880 12.278 -4.029 1.00 0.00 O
 ATOM65 H GLY A 7127.930 10.645 -5.297 1.00 0.00 H
 ATOM66 1HA GLY A 7129.962 9.451 -3.702 1.00 0.00 H
 ATOM67 2HA GLY A 7130.637 10.078 -5.198 1.00 0.00 H

ATOM68 N LEU A 8128.813 11.957 -3.200 1.00 0.00 N
 ATOM69 CA LEU A 8128.741 13.271 -2.570 1.00 0.00 C
 ATOM70 C LEU A 8128.749 13.146 -1.050 1.00 0.00 C
 ATOM71 O LEU A 8128.123 13.940 -0.349 1.00 0.00 O
 ATOM72 CB LEU A 8127.482 14.011 -3.026 1.00 0.00 C
 ATOM73 CG LEU A 8127.632 14.802 -4.326 1.00 0.00 C
 ATOM74 CD1 LEU A 8126.291 14.925 -5.034 1.00 0.00 C
 ATOM75 CD2 LEU A 8128.217 16.179 -4.047 1.00 0.00 C
 ATOM76 H LEU A 8128.050 11.347 -3.119 1.00 0.00 H
 ATOM77 HA LEU A 8129.610 13.834 -2.878 1.00 0.00 H
 ATOM78 1HB LEU A 8126.692 13.286 -3.158 1.00 0.00 H
 ATOM79 2HB LEU A 8127.190 14.697 -2.245 1.00 0.00 H
 ATOM80 HG LEU A 8128.308 14.277 -4.983 1.00 0.00 H
 ATOM81 1HD1 LEU A 8126.239 15.875 -5.546 1.00 0.00 H
 ATOM82 2HD1 LEU A 8125.493 14.863 -4.307 1.00 0.00 H
 ATOM83 3HD1 LEU A 8126.187 14.124 -5.750 1.00 0.00 H
 ATOM84 1HD2 LEU A 8127.824 16.888 -4.760 1.00 0.00 H
 ATOM85 2HD2 LEU A 8129.293 16.137 -4.136 1.00 0.00 H
 ATOM86 3HD2 LEU A 8127.950 16.487 -3.047 1.00 0.00 H
 ATOM87 N ALA A 9129.465 12.144 -0.548 1.00 0.00 N
 ATOM88 CA ALA A 9129.555 11.916 0.889 1.00 0.00 C
 ATOM89 C ALA A 9130.916 11.341 1.267 1.00 0.00 C
 ATOM90 O ALA A 9131.007 10.386 2.039 1.00 0.00 O
 ATOM91 CB ALA A 9128.440 10.988 1.346 1.00 0.00 C
 ATOM92 H ALA A 9129.942 11.546 -1.158 1.00 0.00 H
 ATOM93 HA ALA A 9129.426 12.866 1.386 1.00 0.00 H
 ATOM94 1HB ALA A 9128.296 11.095 2.411 1.00 0.00 H
 ATOM95 2HB ALA A 9128.707 9.966 1.120 1.00 0.00 H
 ATOM96 3HB ALA A 9127.526 11.242 0.831 1.00 0.00 H
 ATOM97 N MET A 10131.974 11.929 0.717 1.00 0.00 N
 ATOM98 CA MET A 10133.332 11.475 0.996 1.00 0.00 C

ATOM99	C	META	10134.283	12.661	1.158	1.00	0.00	C
ATOM	100	O	META	10135.242	12.808	0.401	1.00	O
ATOM	101	CB	META	10133.825	10.557	-0.127	1.00	C
ATOM	102	CG	META	10133.494	11.064	-1.523	1.00	C
ATOM	103	SD	META	10134.899	11.857	-2.329	1.00	S
ATOM	104	CE	META	10134.803	11.137	-3.965	1.00	C
ATOM	105	H	META	10131.838	12.686	0.109	1.00	H
ATOM	106	HA	META	10133.311	10.918	1.920	1.00	H
ATOM	107	1HB	META	10134.897	10.458	-0.048	1.00	H
ATOM	108	2HB	META	10133.372	9.584	-0.004	1.00	H
ATOM	109	1HG	META	10133.178	10.227	-2.128	1.00	H
ATOM	110	2HG	META	10132.687	11.778	-1.452	1.00	H
ATOM	111	1HE	META	10135.673	11.424	-4.536	1.00	H
ATOM	112	2HE	META	10133.912	11.489	-4.462	1.00	H
ATOM	113	3HE	META	10134.767	10.060	-3.883	1.00	H
ATOM	114	N	PRO A	11134.028	13.530	2.154	1.00	N
ATOM	115	CA	PRO A	11134.869	14.707	2.406	1.00	C
ATOM	116	C	PRO A	11136.323	14.343	2.706	1.00	C
ATOM	117	O	PRO A	11137.243	14.934	2.142	1.00	O
ATOM	118	CB	PRO A	11134.223	15.370	3.629	1.00	C
ATOM	119	CG	PRO A	11132.840	14.818	3.694	1.00	C
ATOM	120	CD	PRO A	11132.907	13.439	3.104	1.00	C
ATOM	121	HA	PRO A	11134.841	15.391	1.570	1.00	H
ATOM	122	1HB	PRO A	11134.789	15.125	4.514	1.00	H
ATOM	123	2HB	PRO A	11134.212	16.441	3.492	1.00	H
ATOM	124	1HG	PRO A	11132.515	14.768	4.723	1.00	H
ATOM	125	2HG	PRO A	11132.170	15.439	3.119	1.00	H
ATOM	126	1HD	PRO A	11133.108	12.708	3.873	1.00	H
ATOM	127	2HD	PRO A	11131.985	13.205	2.592	1.00	H
ATOM	128	N	PRO A	12136.556	13.370	3.608	1.00	N
ATOM	129	CA	PRO A	12137.907	12.949	3.978	1.00	C

ATOM	130	C	PRO A	12138.499	11.939	3.000	1.00	0.00	C
ATOM	131	O	PRO A	12139.664	12.044	2.616	1.00	0.00	O
ATOM	132	CB	PRO A	12137.694	12.306	5.345	1.00	0.00	C
ATOM	133	CG	PRO A	12136.322	11.725	5.275	1.00	0.00	C
ATOM	134	CD	PRO A	12135.527	12.609	4.344	1.00	0.00	C
ATOM	135	HA	PRO A	12138.574	13.792	4.073	1.00	0.00	H
ATOM	136	1HB	PRO A	12138.441	11.543	5.507	1.00	0.00	H
ATOM	137	2HB	PRO A	12137.765	13.059	6.116	1.00	0.00	H
ATOM	138	1HG	PRO A	12136.371	10.720	4.885	1.00	0.00	H
ATOM	139	2HG	PRO A	12135.876	11.724	6.259	1.00	0.00	H
ATOM	140	1HD	PRO A	12134.939	12.007	3.668	1.00	0.00	H
ATOM	141	2HD	PRO A	12134.889	13.271	4.910	1.00	0.00	H
ATOM	142	N	GLY A	13137.695	10.958	2.605	1.00	0.00	N
ATOM	143	CA	GLY A	13138.165	9.942	1.680	1.00	0.00	C
ATOM	144	C	GLY A	13137.387	9.927	0.380	1.00	0.00	C
ATOM	145	O	GLY A	13137.055	10.980	-0.165	1.00	0.00	O
ATOM	146	H	GLY A	13136.776	10.921	2.947	1.00	0.00	H
ATOM	147	1HA	GLY A	13139.206	10.126	1.460	1.00	0.00	H
ATOM	148	2HA	GLY A	13138.075	8.975	2.152	1.00	0.00	H
ATOM	149	N	ASNA	14137.097	8.729	-0.117	1.00	0.00	N
ATOM	150	CA	ASNA	14136.354	8.576	-1.364	1.00	0.00	C
ATOM	151	C	ASNA	14135.392	7.395	-1.282	1.00	0.00	C
ATOM	152	O	ASNA	14135.721	6.353	-0.716	1.00	0.00	O
ATOM	153	CB	ASNA	14137.318	8.384	-2.536	1.00	0.00	C
ATOM	154	CG	ASNA	14138.440	9.403	-2.536	1.00	0.00	C
ATOM	155	OD1	ASNA	14138.425	10.362	-3.307	1.00	0.00	O
ATOM	156	ND2	ASNA	14139.424	9.201	-1.666	1.00	0.00	N
ATOM	157	H	ASNA	14137.390	7.928	0.364	1.00	0.00	H
ATOM	158	HA	ASNA	14135.785	9.479	-1.523	1.00	0.00	H
ATOM	159	1HB	ASNA	14137.753	7.397	-2.478	1.00	0.00	H
ATOM	160	2HB	ASNA	14136.771	8.478	-3.462	1.00	0.00	H

ATOM	161	1HD2	ASN A	14139.370	8.415	-1.082	1.00	0.00	H
ATOM	162	2HD2	ASN A	14140.162	9.844	-1.644	1.00	0.00	H
ATOM	163	N	SER A	15134.203	7.567	-1.851	1.00	0.00	N
ATOM	164	CA	SER A	15133.189	6.517	-1.845	1.00	0.00	C
ATOM	165	C	SER A	15132.729	6.212	-0.422	1.00	0.00	C
ATOM	166	O	SER A	15131.666	6.664	0.007	1.00	0.00	O
ATOM	167	CB	SER A	15133.733	5.247	-2.504	1.00	0.00	C
ATOM	168	OG	SER A	15133.356	5.179	-3.869	1.00	0.00	O
ATOM	169	H	SER A	15134.001	8.422	-2.287	1.00	0.00	H
ATOM	170	HA	SER A	15132.344	6.872	-2.414	1.00	0.00	H
ATOM	171	1HB	SER A	15134.811	5.244	-2.442	1.00	0.00	H
ATOM	172	2HB	SER A	15133.341	4.381	-1.991	1.00	0.00	H
ATOM	173	HG	SER A	15132.415	5.352	-3.950	1.00	0.00	H
ATOM	174	N	HIS A	16133.533	5.445	0.306	1.00	0.00	N
ATOM	175	CA	HIS A	16133.208	5.082	1.680	1.00	0.00	C
ATOM	176	C	HIS A	16134.066	5.865	2.668	1.00	0.00	C
ATOM	177	O	HIS A	16133.573	6.351	3.686	1.00	0.00	O
ATOM	178	CB	HIS A	16133.405	3.580	1.894	1.00	0.00	C
ATOM	179	CG	HIS A	16132.249	2.752	1.423	1.00	0.00	C
ATOM	180	ND1	HIS A	16131.753	1.680	2.135	1.00	0.00	N
ATOM	181	CD2	HIS A	16131.490	2.843	0.305	1.00	0.00	C
ATOM	182	CE1	HIS A	16130.739	1.148	1.475	1.00	0.00	C
ATOM	183	NE2	HIS A	16130.560	1.835	0.362	1.00	0.00	N
ATOM	184	H	HIS A	16134.367	5.115	-0.090	1.00	0.00	H
ATOM	185	HA	HIS A	16132.170	5.328	1.851	1.00	0.00	H
ATOM	186	1HB	HIS A	16134.284	3.260	1.355	1.00	0.00	H
ATOM	187	2HB	HIS A	16133.545	3.389	2.948	1.00	0.00	H
ATOM	188	HD1	HIS A	16132.093	1.357	2.995	1.00	0.00	H
ATOM	189	HD2	HIS A	16131.598	3.573	-0.485	1.00	0.00	H
ATOM	190	HE1	HIS A	16130.157	0.295	1.792	1.00	0.00	H
ATOM	191	HE2	HIS A	16129.823	1.704	-0.270	1.00	0.00	H

ATOM	192	N	GLY A	17135.354	5.982	2.360	1.00	0.00	N
ATOM	193	CA	GLY A	17136.261	6.707	3.230	1.00	0.00	C
ATOM	194	C	GLY A	17137.602	6.015	3.375	1.00	0.00	C
ATOM	195	O	GLY A	17138.004	5.653	4.481	1.00	0.00	O
ATOM	196	H	GLY A	17135.690	5.574	1.536	1.00	0.00	H
ATOM	197	1HA	GLY A	17136.421	7.695	2.823	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.809	6.802	4.206	1.00	0.00	H
ATOM	199	N	LEU A	18138.294	5.830	2.256	1.00	0.00	N
ATOM	200	CA	LEU A	18139.598	5.176	2.264	1.00	0.00	C
ATOM	201	C	LEU A	18140.706	6.174	2.579	1.00	0.00	C
ATOM	202	O	LEU A	18141.119	6.952	1.718	1.00	0.00	O
ATOM	203	CB	LEU A	18139.865	4.509	0.913	1.00	0.00	C
ATOM	204	CG	LEU A	18138.793	3.519	0.456	1.00	0.00	C
ATOM	205	CD1	LEU A	18138.995	3.149	-1.004	1.00	0.00	C
ATOM	206	CD2	LEU A	18138.812	2.274	1.330	1.00	0.00	C
ATOM	207	H	LEU A	18137.921	6.141	1.406	1.00	0.00	H
ATOM	208	HA	LEU A	18139.583	4.418	3.032	1.00	0.00	H
ATOM	209	1HB	LEU A	18139.953	5.284	0.165	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.806	3.983	0.975	1.00	0.00	H
ATOM	211	HG	LEU A	18137.821	3.981	0.552	1.00	0.00	H
ATOM	212	1HD1	LEU A	18139.946	2.651	-1.122	1.00	0.00	H
ATOM	213	2HD1	LEU A	18138.982	4.045	-1.608	1.00	0.00	H
ATOM	214	3HD1	LEU A	18138.202	2.489	-1.322	1.00	0.00	H
ATOM	215	1HD2	LEU A	18139.397	1.505	0.849	1.00	0.00	H
ATOM	216	2HD2	LEU A	18137.802	1.920	1.475	1.00	0.00	H
ATOM	217	3HD2	LEU A	18139.250	2.513	2.288	1.00	0.00	H
ATOM	218	N	GLU A	19141.185	6.148	3.819	1.00	0.00	N
ATOM	219	CA	GLU A	19142.246	7.051	4.248	1.00	0.00	C
ATOM	220	C	GLU A	19143.202	6.348	5.207	1.00	0.00	C
ATOM	221	O	GLU A	19143.061	5.156	5.479	1.00	0.00	O
ATOM	222	CB	GLU A	19141.650	8.289	4.919	1.00	0.00	C

ATOM	223	CG	GLU A	19140.820	7.972	6.152	1.00	0.00	C
ATOM	224	CD	GLU A	19141.049	8.961	7.279	1.00	0.00	C
ATOM	225	OE1	GLU A	19142.219	9.330	7.517	1.00	0.00	O
ATOM	226	OE2	GLU A	19140.058	9.368	7.922	1.00	0.00	O
ATOM	227	H	GLU A	19140.816	5.504	4.460	1.00	0.00	H
ATOM	228	HA	GLU A	19142.796	7.357	3.371	1.00	0.00	H
ATOM	229	1HB	GLU A	19142.455	8.948	5.212	1.00	0.00	H
ATOM	230	2HB	GLU A	19141.018	8.800	4.209	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.776	7.993	5.883	1.00	0.00	H
ATOM	232	2HG	GLU A	19141.081	6.984	6.502	1.00	0.00	H
ATOM	233	N	VAL A	20144.175	7.096	5.717	1.00	0.00	N
ATOM	234	CA	VAL A	20145.156	6.545	6.647	1.00	0.00	C
ATOM	235	C	VAL A	20144.476	5.973	7.886	1.00	0.00	C
ATOM	236	O	VAL A	20143.563	6.582	8.443	1.00	0.00	O
ATOM	237	CB	VAL A	20146.178	7.612	7.081	1.00	0.00	C
ATOM	238	CG1	VAL A	20147.289	6.984	7.908	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.748	8.330	5.868	1.00	0.00	C
ATOM	240	H	VAL A	20144.237	8.041	5.462	1.00	0.00	H
ATOM	241	HA	VAL A	20145.687	5.753	6.139	1.00	0.00	H
ATOM	242	HB	VAL A	20145.670	8.340	7.697	1.00	0.00	H
ATOM	243	1HG1	VAL A	20146.955	6.867	8.929	1.00	0.00	H
ATOM	244	2HG1	VAL A	20148.160	7.622	7.885	1.00	0.00	H
ATOM	245	3HG1	VAL A	20147.539	6.017	7.499	1.00	0.00	H
ATOM	246	1HG2	VAL A	20147.025	7.605	5.117	1.00	0.00	H
ATOM	247	2HG2	VAL A	20147.620	8.896	6.161	1.00	0.00	H
ATOM	248	3HG2	VAL A	20146.004	9.001	5.463	1.00	0.00	H
ATOM	249	N	GLY A	21144.928	4.797	8.312	1.00	0.00	N
ATOM	250	CA	GLY A	21144.352	4.163	9.482	1.00	0.00	C
ATOM	251	C	GLY A	21143.278	3.154	9.125	1.00	0.00	C
ATOM	252	O	GLY A	21143.175	2.098	9.750	1.00	0.00	O
ATOM	253	H	GLY A	21145.658	4.358	7.827	1.00	0.00	H

ATOM	254	1HA	GLY A	21145.137	3.658	10.028	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.920	4.923	10.116	1.00	0.00	H
ATOM	256	N	SER A	22142.474	3.480	8.118	1.00	0.00	N
ATOM	257	CA	SER A	22141.402	2.595	7.678	1.00	0.00	C
ATOM	258	C	SER A	22141.949	1.470	6.805	1.00	0.00	C
ATOM	259	O	SER A	22142.939	1.645	6.095	1.00	0.00	O
ATOM	260	CB	SER A	22140.344	3.385	6.907	1.00	0.00	C
ATOM	261	OG	SER A	22140.269	4.723	7.368	1.00	0.00	O
ATOM	262	H	SER A	22142.606	4.335	7.659	1.00	0.00	H
ATOM	263	HA	SER A	22140.947	2.164	8.556	1.00	0.00	H
ATOM	264	1HB	SER A	22140.598	3.395	5.857	1.00	0.00	H
ATOM	265	2HB	SER A	22139.380	2.916	7.039	1.00	0.00	H
ATOM	266	HG	SER A	22140.281	4.731	8.329	1.00	0.00	H
ATOM	267	N	LEU A	23141.298	0.312	6.864	1.00	0.00	N
ATOM	268	CA	LEU A	23141.719	-0.842	6.079	1.00	0.00	C
ATOM	269	C	LEU A	23141.156	-0.772	4.664	1.00	0.00	C
ATOM	270	O	LEU A	23140.073	-0.229	4.441	1.00	0.00	O
ATOM	271	CB	LEU A	23141.267	-2.138	6.756	1.00	0.00	C
ATOM	272	CG	LEU A	23141.762	-2.325	8.192	1.00	0.00	C
ATOM	273	CD1	LEU A	23140.763	-3.143	8.997	1.00	0.00	C
ATOM	274	CD2	LEU A	23143.129	-2.990	8.201	1.00	0.00	C
ATOM	275	H	LEU A	23140.515	0.233	7.449	1.00	0.00	H
ATOM	276	HA	LEU A	23142.797	-0.831	6.026	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.186	-2.158	6.763	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.622	-2.970	6.167	1.00	0.00	H
ATOM	279	HG	LEU A	23141.855	-1.357	8.662	1.00	0.00	H
ATOM	280	1HD1	LEU A	23140.721	-2.765	10.008	1.00	0.00	H
ATOM	281	2HD1	LEU A	23141.074	-4.177	9.012	1.00	0.00	H
ATOM	282	3HD1	LEU A	23139.786	-3.066	8.544	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.718	-2.591	9.013	1.00	0.00	H
ATOM	284	2HD2	LEU A	23143.630	-2.796	7.264	1.00	0.00	H

ATOM	285	3HD2	LEU A	23143.010	-4.056	8.332	1.00	0.00	H
ATOM	286	N	ALAA	24141.896	-1.326	3.709	1.00	0.00	N
ATOM	287	CA	ALAA	24141.472	-1.326	2.314	1.00	0.00	C
ATOM	288	C	ALAA	24142.116	-2.474	1.545	1.00	0.00	C
ATOM	289	O	ALAA	24143.252	-2.858	1.820	1.00	0.00	O
ATOM	290	CB	ALAA	24141.806	0.005	1.660	1.00	0.00	C
ATOM	291	H	ALAA	24142.750	-1.744	3.949	1.00	0.00	H
ATOM	292	HA	ALAA	24140.398	-1.451	2.294	1.00	0.00	H
ATOM	293	1HB	ALAA	24142.746	-0.079	1.134	1.00	0.00	H
ATOM	294	2HB	ALAA	24141.884	0.770	2.419	1.00	0.00	H
ATOM	295	3HB	ALAA	24141.026	0.270	0.962	1.00	0.00	H
ATOM	296	N	GLU A	25141.383	-3.016	0.578	1.00	0.00	N
ATOM	297	CA	GLU A	25141.883	-4.121	-0.233	1.00	0.00	C
ATOM	298	C	GLU A	25142.149	-3.669	-1.665	1.00	0.00	C
ATOM	299	O	GLU A	25141.544	-2.711	-2.146	1.00	0.00	O
ATOM	300	CB	GLU A	25140.883	-5.278	-0.229	1.00	0.00	C
ATOM	301	CG	GLU A	25141.402	-6.533	-0.912	1.00	0.00	C
ATOM	302	CD	GLU A	25140.359	-7.631	-0.983	1.00	0.00	C
ATOM	303	OE1	GLU A	25140.483	-8.511	-1.860	1.00	0.00	O
ATOM	304	OE2	GLU A	25139.420	-7.612	-0.159	1.00	0.00	O
ATOM	305	H	GLU A	25140.484	-2.666	0.406	1.00	0.00	H
ATOM	306	HA	GLU A	25142.812	-4.458	0.203	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.640	-5.526	0.794	1.00	0.00	H
ATOM	308	2HB	GLU A	25139.984	-4.963	-0.738	1.00	0.00	H
ATOM	309	1HG	GLU A	25141.704	-6.281	-1.917	1.00	0.00	H
ATOM	310	2HG	GLU A	25142.255	-6.900	-0.362	1.00	0.00	H
ATOM	311	N	VALA	26143.058	-4.363	-2.340	1.00	0.00	N
ATOM	312	CA	VALA	26143.405	-4.034	-3.718	1.00	0.00	C
ATOM	313	C	VALA	26143.016	-5.163	-4.667	1.00	0.00	C
ATOM	314	O	VALA	26142.958	-6.327	-4.272	1.00	0.00	O
ATOM	315	CB	VALA	26144.911	-3.750	-3.867	1.00	0.00	C

ATOM	316	CG1	VAL A	26145.220	-3.217	-5.257	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.378	-2.775	-2.798	1.00	0.00	C
ATOM	318	H	VAL A	26143.507	-5.116	-1.903	1.00	0.00	H
ATOM	319	HA	VAL A	26142.862	-3.141	-3.995	1.00	0.00	H
ATOM	320	HB	VAL A	26145.446	-4.679	-3.735	1.00	0.00	H
ATOM	321	1HG1	VAL A	26146.167	-2.698	-5.241	1.00	0.00	H
ATOM	322	2HG1	VAL A	26144.441	-2.535	-5.563	1.00	0.00	H
ATOM	323	3HG1	VAL A	26145.272	-4.039	-5.955	1.00	0.00	H
ATOM	324	1HG2	VAL A	26144.985	-3.076	-1.838	1.00	0.00	H
ATOM	325	2HG2	VAL A	26145.026	-1.782	-3.036	1.00	0.00	H
ATOM	326	3HG2	VAL A	26146.458	-2.773	-2.759	1.00	0.00	H
ATOM	327	N	LYS A	27142.751	-4.810	-5.921	1.00	0.00	N
ATOM	328	CA	LYS A	27142.369	-5.793	-6.927	1.00	0.00	C
ATOM	329	C	LYS A	27143.583	-6.248	-7.731	1.00	0.00	C
ATOM	330	O	LYS A	27144.100	-5.507	-8.567	1.00	0.00	O
ATOM	331	CB	LYS A	27141.311	-5.209	-7.865	1.00	0.00	C
ATOM	332	CG	LYS A	27140.596	-6.257	-8.703	1.00	0.00	C
ATOM	333	CD	LYS A	27139.384	-5.672	-9.410	1.00	0.00	C
ATOM	334	CE	LYS A	27139.017	-6.478	-10.646	1.00	0.00	C
ATOM	335	NZ	LYS A	27137.542	-6.568	-10.832	1.00	0.00	N
ATOM	336	H	LYS A	27142.815	-3.865	-6.176	1.00	0.00	H
ATOM	337	HA	LYS A	27141.951	-6.647	-6.414	1.00	0.00	H
ATOM	338	1HB	LYS A	27140.573	-4.686	-7.276	1.00	0.00	H
ATOM	339	2HB	LYS A	27141.787	-4.509	-8.535	1.00	0.00	H
ATOM	340	1HG	LYS A	27141.280	-6.641	-9.443	1.00	0.00	H
ATOM	341	2HG	LYS A	27140.271	-7.060	-8.057	1.00	0.00	H
ATOM	342	1HD	LYS A	27138.545	-5.673	-8.729	1.00	0.00	H
ATOM	343	2HD	LYS A	27139.607	-4.657	-9.707	1.00	0.00	H
ATOM	344	1HE	LYS A	27139.452	-6.003	-11.512	1.00	0.00	H
ATOM	345	2HE	LYS A	27139.419	-7.475	-10.542	1.00	0.00	H
ATOM	346	1HZ	LYS A	27137.058	-6.447	-9.919	1.00	0.00	H

ATOM	347	2HZ	LYS A	27137.287	-7.496	-11.226	1.00	0.00	H
ATOM	348	3HZ	LYS A	27137.218	-5.825	-11.485	1.00	0.00	H
ATOM	349	N	GLU A	28144.031	-7.473	-7.475	1.00	0.00	N
ATOM	350	CA	GLU A	28145.184	-8.026	-8.174	1.00	0.00	C
ATOM	351	C	GLU A	28145.135	-9.551	-8.180	1.00	0.00	C
ATOM	352	O	GLU A	28144.125	-10.152	-7.814	1.00	0.00	O
ATOM	353	CB	GLU A	28146.483	-7.545	-7.523	1.00	0.00	C
ATOM	354	CG	GLU A	28147.503	-7.017	-8.517	1.00	0.00	C
ATOM	355	CD	GLU A	28148.752	-7.873	-8.585	1.00	0.00	C
ATOM	356	OE1	GLU A	28149.528	-7.872	-7.606	1.00	0.00	O
ATOM	357	OE2	GLU A	28148.955	-8.548	-9.617	1.00	0.00	O
ATOM	358	H	GLU A	28143.576	-8.016	-6.798	1.00	0.00	H
ATOM	359	HA	GLU A	28145.152	-7.674	-9.194	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.249	-6.755	-6.824	1.00	0.00	H
ATOM	361	2HB	GLU A	28146.929	-8.368	-6.983	1.00	0.00	H
ATOM	362	1HG	GLU A	28147.052	-6.989	-9.497	1.00	0.00	H
ATOM	363	2HG	GLU A	28147.786	-6.016	-8.224	1.00	0.00	H
ATOM	364	N	ASN A	29146.234	-10.172	-8.599	1.00	0.00	N
ATOM	365	CA	ASN A	29146.317	-11.626	-8.650	1.00	0.00	C
ATOM	366	C	ASN A	29146.467	-12.213	-7.249	1.00	0.00	C
ATOM	367	O	ASN A	29145.645	-13.020	-6.814	1.00	0.00	O
ATOM	368	CB	ASN A	29147.493	-12.059	-9.529	1.00	0.00	C
ATOM	369	CG	ASN A	29147.063	-12.398	-10.943	1.00	0.00	C
ATOM	370	OD1	ASN A	29146.874	-13.566	-11.284	1.00	0.00	O
ATOM	371	ND2	ASN A	29146.907	-11.375	-11.776	1.00	0.00	N
ATOM	372	H	ASN A	29147.008	-9.638	-8.876	1.00	0.00	H
ATOM	373	HA	ASN A	29145.400	-11.995	-9.085	1.00	0.00	H
ATOM	374	1HB	ASN A	29148.214	-11.257	-9.576	1.00	0.00	H
ATOM	375	2HB	ASN A	29147.958	-12.932	-9.095	1.00	0.00	H
ATOM	376	1HD2	ASN A	29147.076	-10.472	-11.435	1.00	0.00	H
ATOM	377	2HD2	ASN A	29146.629	-11.566	-12.696	1.00	0.00	H

ATOM	378	N	PRO A	30147.526	-11.816	-6.522	1.00	0.00	N
ATOM	379	CA	PRO A	30147.782	-12.306	-5.166	1.00	0.00	C
ATOM	380	C	PRO A	30146.884	-11.635	-4.126	1.00	0.00	C
ATOM	381	O	PRO A	30147.049	-10.453	-3.828	1.00	0.00	O
ATOM	382	CB	PRO A	30149.243	-11.926	-4.932	1.00	0.00	C
ATOM	383	CG	PRO A	30149.448	-10.704	-5.760	1.00	0.00	C
ATOM	384	CD	PRO A	30148.557	-10.856	-6.965	1.00	0.00	C
ATOM	385	HA	PRO A	30147.671	-13.378	-5.105	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.403	-11.727	-3.883	1.00	0.00	H
ATOM	387	2HB	PRO A	30149.884	-12.733	-5.255	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.166	-9.829	-5.194	1.00	0.00	H
ATOM	389	2HG	PRO A	30150.482	-10.638	-6.064	1.00	0.00	H
ATOM	390	1HD	PRO A	30148.113	-9.908	-7.225	1.00	0.00	H
ATOM	391	2HD	PRO A	30149.117	-11.252	-7.799	1.00	0.00	H
ATOM	392	N	PRO A	31145.919	-12.382	-3.559	1.00	0.00	N
ATOM	393	CA	PRO A	31145.001	-11.844	-2.550	1.00	0.00	C
ATOM	394	C	PRO A	31145.700	-11.555	-1.226	1.00	0.00	C
ATOM	395	O	PRO A	31146.226	-12.461	-0.579	1.00	0.00	O
ATOM	396	CB	PRO A	31143.968	-12.960	-2.376	1.00	0.00	C
ATOM	397	CG	PRO A	31144.686	-14.204	-2.768	1.00	0.00	C
ATOM	398	CD	PRO A	31145.648	-13.802	-3.851	1.00	0.00	C
ATOM	399	HA	PRO A	31144.511	-10.946	-2.899	1.00	0.00	H
ATOM	400	1HB	PRO A	31143.644	-12.996	-1.346	1.00	0.00	H
ATOM	401	2HB	PRO A	31143.121	-12.775	-3.019	1.00	0.00	H
ATOM	402	1HG	PRO A	31145.224	-14.600	-1.918	1.00	0.00	H
ATOM	403	2HG	PRO A	31143.982	-14.932	-3.142	1.00	0.00	H
ATOM	404	1HD	PRO A	31146.553	-14.388	-3.790	1.00	0.00	H
ATOM	405	2HD	PRO A	31145.189	-13.914	-4.822	1.00	0.00	H
ATOM	406	N	PHE A	32145.703	-10.287	-0.828	1.00	0.00	N
ATOM	407	CA	PHE A	32146.338	-9.878	0.420	1.00	0.00	C
ATOM	408	C	PHE A	32145.479	-8.858	1.160	1.00	0.00	C

ATOM	409	O	PHE A	32144.591	-8.238	0.574	1.00	0.00	O
ATOM	410	CB	PHE A	32147.723	-9.291	0.142	1.00	0.00	C
ATOM	411	CG	PHE A	32147.736	-8.287	-0.975	1.00	0.00	C
ATOM	412	CD1	PHE A	32148.424	-8.547	-2.150	1.00	0.00	C
ATOM	413	CD2	PHE A	32147.060	-7.083	-0.851	1.00	0.00	C
ATOM	414	CE1	PHE A	32148.438	-7.626	-3.180	1.00	0.00	C
ATOM	415	CE2	PHE A	32147.070	-6.158	-1.878	1.00	0.00	C
ATOM	416	CZ	PHE A	32147.760	-6.429	-3.044	1.00	0.00	C
ATOM	417	H	PHE A	32145.267	-9.610	-1.386	1.00	0.00	H
ATOM	418	HA	PHE A	32146.447	-10.756	1.038	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.083	-8.799	1.033	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.399	-10.090	-0.120	1.00	0.00	H
ATOM	421	HD1	PHE A	32148.955	-9.482	-2.257	1.00	0.00	H
ATOM	422	HD2	PHE A	32146.521	-6.871	0.060	1.00	0.00	H
ATOM	423	HE1	PHE A	32148.978	-7.839	-4.090	1.00	0.00	H
ATOM	424	HE2	PHE A	32146.540	-5.224	-1.769	1.00	0.00	H
ATOM	425	HZ	PHE A	32147.770	-5.708	-3.847	1.00	0.00	H
ATOM	426	N	TYR A	33145.750	-8.690	2.450	1.00	0.00	N
ATOM	427	CA	TYR A	33145.001	-7.746	3.272	1.00	0.00	C
ATOM	428	C	TYR A	33145.945	-6.812	4.022	1.00	0.00	C
ATOM	429	O	TYR A	33146.943	-7.251	4.594	1.00	0.00	O
ATOM	430	CB	TYR A	33144.109	-8.494	4.264	1.00	0.00	C
ATOM	431	CG	TYR A	33142.774	-8.908	3.687	1.00	0.00	C
ATOM	432	CD1	TYR A	33142.316	-10.213	3.813	1.00	0.00	C
ATOM	433	CD2	TYR A	33141.973	-7.993	3.014	1.00	0.00	C
ATOM	434	CE1	TYR A	33141.097	-10.594	3.287	1.00	0.00	C
ATOM	435	CE2	TYR A	33140.752	-8.368	2.486	1.00	0.00	C
ATOM	436	CZ	TYR A	33140.319	-9.668	2.625	1.00	0.00	C
ATOM	437	OH	TYR A	33139.104	-10.045	2.099	1.00	0.00	O
ATOM	438	H	TYR A	33146.469	-9.214	2.860	1.00	0.00	H
ATOM	439	HA	TYR A	33144.379	-7.156	2.615	1.00	0.00	H

ATOM	440	1HB	TYR A	33144.620	-9.387	4.592	1.00	0.00	H
ATOM	441	2HB	TYR A	33143.921	-7.859	5.117	1.00	0.00	H
ATOM	442	HD1	TYR A	33142.927	-10.935	4.333	1.00	0.00	H
ATOM	443	HD2	TYR A	33142.316	-6.975	2.907	1.00	0.00	H
ATOM	444	HE1	TYR A	33140.757	-11.614	3.396	1.00	0.00	H
ATOM	445	HE2	TYR A	33140.144	-7.642	1.967	1.00	0.00	H
ATOM	446	HH	TYR A	33138.462	-10.131	2.807	1.00	0.00	H
ATOM	447	N	GLY A	34145.623	-5.522	4.016	1.00	0.00	N
ATOM	448	CA	GLY A	34146.453	-4.548	4.700	1.00	0.00	C
ATOM	449	C	GLY A	34145.682	-3.302	5.091	1.00	0.00	C
ATOM	450	O	GLY A	34144.454	-3.272	5.009	1.00	0.00	O
ATOM	451	H	GLY A	34144.817	-5.230	3.543	1.00	0.00	H
ATOM	452	1HA	GLY A	34146.861	-5.001	5.591	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.267	-4.264	4.049	1.00	0.00	H
ATOM	454	N	VAL A	35146.405	-2.272	5.520	1.00	0.00	N
ATOM	455	CA	VAL A	35145.783	-1.018	5.927	1.00	0.00	C
ATOM	456	C	VAL A	35146.505	0.177	5.313	1.00	0.00	C
ATOM	457	O	VAL A	35147.721	0.150	5.125	1.00	0.00	O
ATOM	458	CB	VAL A	35145.769	-0.870	7.462	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.188	-0.848	8.012	1.00	0.00	C
ATOM	460	CG2	VAL A	35145.010	0.383	7.873	1.00	0.00	C
ATOM	461	H	VAL A	35147.380	-2.359	5.565	1.00	0.00	H
ATOM	462	HA	VAL A	35144.760	-1.026	5.579	1.00	0.00	H
ATOM	463	HB	VAL A	35145.261	-1.726	7.880	1.00	0.00	H
ATOM	464	1HG1	VAL A	35147.862	-1.287	7.291	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.226	-1.413	8.931	1.00	0.00	H
ATOM	466	3HG1	VAL A	35147.483	0.173	8.204	1.00	0.00	H
ATOM	467	1HG2	VAL A	35143.960	0.255	7.654	1.00	0.00	H
ATOM	468	2HG2	VAL A	35145.392	1.231	7.324	1.00	0.00	H
ATOM	469	3HG2	VAL A	35145.140	0.551	8.931	1.00	0.00	H
ATOM	470	N	ILE A	36145.747	1.224	5.003	1.00	0.00	N

ATOM	471	CA	ILE A	36146.316	2.429	4.411	1.00	0.00	C
ATOM	472	C	ILE A	36147.242	3.136	5.395	1.00	0.00	C
ATOM	473	O	ILE A	36146.961	3.200	6.592	1.00	0.00	O
ATOM	474	CB	ILE A	36145.216	3.410	3.960	1.00	0.00	C
ATOM	475	CG1	ILE A	36144.192	2.693	3.078	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.828	4.590	3.218	1.00	0.00	C
ATOM	477	CD1	ILE A	36143.055	3.584	2.627	1.00	0.00	C
ATOM	478	H	ILE A	36144.783	1.186	5.177	1.00	0.00	H
ATOM	479	HA	ILE A	36146.887	2.136	3.542	1.00	0.00	H
ATOM	480	HB	ILE A	36144.720	3.789	4.841	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.686	2.316	2.196	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.767	1.866	3.629	1.00	0.00	H
ATOM	483	1HG2	ILE A	36146.782	4.299	2.805	1.00	0.00	H
ATOM	484	2HG2	ILE A	36145.968	5.413	3.903	1.00	0.00	H
ATOM	485	3HG2	ILE A	36145.168	4.894	2.420	1.00	0.00	H
ATOM	486	1HD1	ILE A	36143.454	4.434	2.094	1.00	0.00	H
ATOM	487	2HD1	ILE A	36142.502	3.928	3.489	1.00	0.00	H
ATOM	488	3HD1	ILE A	36142.397	3.027	1.976	1.00	0.00	H
ATOM	489	N	ARG A	37148.348	3.667	4.882	1.00	0.00	N
ATOM	490	CA	ARG A	37149.317	4.368	5.718	1.00	0.00	C
ATOM	491	C	ARG A	37149.519	5.800	5.231	1.00	0.00	C
ATOM	492	O	ARG A	37149.161	6.756	5.921	1.00	0.00	O
ATOM	493	CB	ARG A	37150.653	3.625	5.718	1.00	0.00	C
ATOM	494	CG	ARG A	37150.520	2.138	6.004	1.00	0.00	C
ATOM	495	CD	ARG A	37150.448	1.861	7.496	1.00	0.00	C
ATOM	496	NE	ARG A	37149.225	2.391	8.094	1.00	0.00	N
ATOM	497	CZ	ARG A	37149.068	2.601	9.399	1.00	0.00	C
ATOM	498	NH1	ARG A	37150.053	2.328	10.246	1.00	0.00	N
ATOM	499	NH2	ARG A	37147.924	3.087	9.859	1.00	0.00	N
ATOM	500	H	ARG A	37148.518	3.582	3.922	1.00	0.00	H
ATOM	501	HA	ARG A	37148.929	4.395	6.724	1.00	0.00	H

ATOM	502	1HB	ARG	A	37151.119	3.744	4.752	1.00	0.00	H
ATOM	503	2HB	ARG	A	37151.293	4.058	6.473	1.00	0.00	H
ATOM	504	1HG	ARG	A	37149.620	1.770	5.536	1.00	0.00	H
ATOM	505	2HG	ARG	A	37151.376	1.624	5.592	1.00	0.00	H
ATOM	506	1HD	ARG	A	37150.480	0.793	7.654	1.00	0.00	H
ATOM	507	2HD	ARG	A	37151.301	2.320	7.976	1.00	0.00	H
ATOM	508	HE	ARG	A	37148.481	2.601	7.491	1.00	0.00	H
ATOM	509	1HH1	ARG	A	37150.918	1.961	9.906	1.00	0.00	H
ATOM	510	2HH1	ARG	A	37149.929	2.488	11.224	1.00	0.00	H
ATOM	511	1HH2	ARG	A	37147.178	3.295	9.226	1.00	0.00	H
ATOM	512	2HH2	ARG	A	37147.805	3.245	10.839	1.00	0.00	H
ATOM	513	N	TRP	A	38150.092	5.942	4.041	1.00	0.00	N
ATOM	514	CA	TRP	A	38150.340	7.259	3.465	1.00	0.00	C
ATOM	515	C	TRP	A	38149.621	7.414	2.128	1.00	0.00	C
ATOM	516	O	TRP	A	38149.714	6.549	1.257	1.00	0.00	O
ATOM	517	CB	TRP	A	38151.845	7.487	3.282	1.00	0.00	C
ATOM	518	CG	TRP	A	38152.172	8.692	2.450	1.00	0.00	C
ATOM	519	CD1	TRP	A	38152.385	9.965	2.896	1.00	0.00	C
ATOM	520	CD2	TRP	A	38152.315	8.736	1.025	1.00	0.00	C
ATOM	521	NE1	TRP	A	38152.652	10.798	1.836	1.00	0.00	N
ATOM	522	CE2	TRP	A	38152.614	10.067	0.677	1.00	0.00	C
ATOM	523	CE3	TRP	A	38152.218	7.779	0.011	1.00	0.00	C
ATOM	524	CZ2	TRP	A	38152.818	10.462	-0.644	1.00	0.00	C
ATOM	525	CZ3	TRP	A	38152.421	8.174	-1.298	1.00	0.00	C
ATOM	526	CH2	TRP	A	38152.718	9.504	-1.616	1.00	0.00	C
ATOM	527	H	TRP	A	38150.355	5.143	3.538	1.00	0.00	H
ATOM	528	HA	TRP	A	38149.956	7.998	4.152	1.00	0.00	H
ATOM	529	1HB	TRP	A	38152.303	7.619	4.251	1.00	0.00	H
ATOM	530	2HB	TRP	A	38152.276	6.622	2.800	1.00	0.00	H
ATOM	531	HD1	TRP	A	38152.347	10.260	3.934	1.00	0.00	H
ATOM	532	HE1	TRP	A	38152.840	11.757	1.898	1.00	0.00	H

ATOM	533	HE3	TRP A	38151.989	6.750	0.236	1.00	0.00	H
ATOM	534	HZ2	TRP A	38153.045	11.485	-0.905	1.00	0.00	H
ATOM	535	HZ3	TRP A	38152.350	7.447	-2.094	1.00	0.00	H
ATOM	536	HH2	TRP A	38152.868	9.767	-2.653	1.00	0.00	H
ATOM	537	N	ILE A	39148.914	8.527	1.971	1.00	0.00	N
ATOM	538	CA	ILE A	39148.186	8.807	0.740	1.00	0.00	C
ATOM	539	C	ILE A	39148.655	10.121	0.126	1.00	0.00	C
ATOM	540	O	ILE A	39148.335	11.200	0.627	1.00	0.00	O
ATOM	541	CB	ILE A	39146.667	8.879	0.986	1.00	0.00	C
ATOM	542	CG1	ILE A	39146.190	7.640	1.748	1.00	0.00	C
ATOM	543	CG2	ILE A	39145.921	9.014	-0.333	1.00	0.00	C
ATOM	544	CD1	ILE A	39145.160	7.947	2.814	1.00	0.00	C
ATOM	545	H	ILE A	39148.886	9.181	2.700	1.00	0.00	H
ATOM	546	HA	ILE A	39148.383	8.004	0.044	1.00	0.00	H
ATOM	547	HB	ILE A	39146.462	9.757	1.578	1.00	0.00	H
ATOM	548	1HG1	ILE A	39145.747	6.945	1.051	1.00	0.00	H
ATOM	549	2HG1	ILE A	39147.036	7.172	2.228	1.00	0.00	H
ATOM	550	1HG2	ILE A	39146.587	9.412	-1.085	1.00	0.00	H
ATOM	551	2HG2	ILE A	39145.082	9.681	-0.206	1.00	0.00	H
ATOM	552	3HG2	ILE A	39145.564	8.044	-0.647	1.00	0.00	H
ATOM	553	1HD1	ILE A	39145.546	8.705	3.479	1.00	0.00	H
ATOM	554	2HD1	ILE A	39144.946	7.049	3.377	1.00	0.00	H
ATOM	555	3HD1	ILE A	39144.254	8.303	2.348	1.00	0.00	H
ATOM	556	N	GLY A	40149.421	10.027	-0.956	1.00	0.00	N
ATOM	557	CA	GLY A	40149.925	11.219	-1.610	1.00	0.00	C
ATOM	558	C	GLY A	40150.479	10.940	-2.992	1.00	0.00	C
ATOM	559	O	GLY A	40150.290	9.853	-3.539	1.00	0.00	O
ATOM	560	H	GLY A	40149.648	9.142	-1.310	1.00	0.00	H
ATOM	561	1HA	GLY A	40149.122	11.936	-1.694	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.707	11.646	-1.001	1.00	0.00	H
ATOM	563	N	GLN A	41151.164	11.928	-3.558	1.00	0.00	N

ATOM	564	CA	GLN A	41151.749	11.795	-4.885	1.00	0.00	C
ATOM	565	C	GLN A	41153.233	12.162	-4.861	1.00	0.00	C
ATOM	566	O	GLN A	41153.589	13.310	-4.593	1.00	0.00	O
ATOM	567	CB	GLN A	41151.006	12.692	-5.874	1.00	0.00	C
ATOM	568	CG	GLN A	41149.494	12.552	-5.804	1.00	0.00	C
ATOM	569	CD	GLN A	41148.780	13.884	-5.930	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.762	14.682	-4.993	1.00	0.00	O
ATOM	571	NE2	GLN A	41148.187	14.129	-7.091	1.00	0.00	N
ATOM	572	H	GLN A	41151.277	12.770	-3.071	1.00	0.00	H
ATOM	573	HA	GLN A	41151.645	10.767	-5.196	1.00	0.00	H
ATOM	574	1HB	GLN A	41151.260	13.721	-5.669	1.00	0.00	H
ATOM	575	2HB	GLN A	41151.324	12.446	-6.875	1.00	0.00	H
ATOM	576	1HG	GLN A	41149.166	11.910	-6.606	1.00	0.00	H
ATOM	577	2HG	GLN A	41149.230	12.107	-4.856	1.00	0.00	H
ATOM	578	1HE2	GLN A	41148.242	13.447	-7.792	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.718	14.983	-7.200	1.00	0.00	H
ATOM	580	N	PRO A	42154.123	11.192	-5.140	1.00	0.00	N
ATOM	581	CA	PRO A	42155.571	11.431	-5.144	1.00	0.00	C
ATOM	582	C	PRO A	42155.970	12.538	-6.115	1.00	0.00	C
ATOM	583	O	PRO A	42155.226	12.862	-7.040	1.00	0.00	O
ATOM	584	CB	PRO A	42156.160	10.089	-5.592	1.00	0.00	C
ATOM	585	CG	PRO A	42155.105	9.086	-5.277	1.00	0.00	C
ATOM	586	CD	PRO A	42153.796	9.795	-5.471	1.00	0.00	C
ATOM	587	HA	PRO A	42155.932	11.675	-4.156	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.372	10.122	-6.650	1.00	0.00	H
ATOM	589	2HB	PRO A	42157.068	9.891	-5.043	1.00	0.00	H
ATOM	590	1HG	PRO A	42155.182	8.247	-5.953	1.00	0.00	H
ATOM	591	2HG	PRO A	42155.204	8.755	-4.253	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.468	9.707	-6.496	1.00	0.00	H
ATOM	593	2HD	PRO A	42153.049	9.403	-4.796	1.00	0.00	H
ATOM	594	N	PRO A	43157.157	13.135	-5.916	1.00	0.00	N

ATOM	595	CA	PRO A	43157.653	14.210	-6.779	1.00	0.00	C
ATOM	596	C	PRO A	43158.072	13.701	-8.154	1.00	0.00	C
ATOM	597	O	PRO A	43159.237	13.372	-8.377	1.00	0.00	O
ATOM	598	CB	PRO A	43158.867	14.743	-6.019	1.00	0.00	C
ATOM	599	CG	PRO A	43159.338	13.593	-5.199	1.00	0.00	C
ATOM	600	CD	PRO A	43158.107	12.807	-4.836	1.00	0.00	C
ATOM	601	HA	PRO A	43156.922	14.995	-6.894	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.621	15.063	-6.722	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.570	15.575	-5.398	1.00	0.00	H
ATOM	604	1HG	PRO A	43160.015	12.982	-5.778	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.827	13.954	-4.306	1.00	0.00	H
ATOM	606	1HD	PRO A	43158.325	11.749	-4.822	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.724	13.126	-3.877	1.00	0.00	H
ATOM	608	N	GLY A	44157.115	13.641	-9.073	1.00	0.00	N
ATOM	609	CA	GLY A	44157.408	13.172	-10.414	1.00	0.00	C
ATOM	610	C	GLY A	44156.177	12.664	-11.134	1.00	0.00	C
ATOM	611	O	GLY A	44155.900	13.064	-12.265	1.00	0.00	O
ATOM	612	H	GLY A	44156.204	13.916	-8.839	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.832	13.986	-10.982	1.00	0.00	H
ATOM	614	2HA	GLY A	44158.132	12.374	-10.354	1.00	0.00	H
ATOM	615	N	LEU A	45155.434	11.777	-10.479	1.00	0.00	N
ATOM	616	CA	LEU A	45154.226	11.214	-11.068	1.00	0.00	C
ATOM	617	C	LEU A	45153.012	11.507	-10.196	1.00	0.00	C
ATOM	618	O	LEU A	45152.895	10.989	-9.086	1.00	0.00	O
ATOM	619	CB	LEU A	45154.382	9.704	-11.255	1.00	0.00	C
ATOM	620	CG	LEU A	45154.896	8.948	-10.027	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.503	7.479	-10.098	1.00	0.00	C
ATOM	622	CD2	LEU A	45156.407	9.097	-9.903	1.00	0.00	C
ATOM	623	H	LEU A	45155.705	11.497	-9.578	1.00	0.00	H
ATOM	624	HA	LEU A	45154.080	11.674	-12.034	1.00	0.00	H
ATOM	625	1HB	LEU A	45153.420	9.294	-11.528	1.00	0.00	H

ATOM	626	2HB	LEU	A	45155.071	9.532	-12.069	1.00	0.00	H
ATOM	627	HG	LEU	A	45154.444	9.371	-9.141	1.00	0.00	H
ATOM	628	1HD1	LEU	A	45153.934	7.217	-9.218	1.00	0.00	H
ATOM	629	2HD1	LEU	A	45155.393	6.869	-10.146	1.00	0.00	H
ATOM	630	3HD1	LEU	A	45153.903	7.308	-10.979	1.00	0.00	H
ATOM	631	1HD2	LEU	A	45156.882	8.155	-10.133	1.00	0.00	H
ATOM	632	2HD2	LEU	A	45156.657	9.388	-8.893	1.00	0.00	H
ATOM	633	3HD2	LEU	A	45156.754	9.853	-10.591	1.00	0.00	H
ATOM	634	N	ASN	A	46152.106	12.339	-10.702	1.00	0.00	N
ATOM	635	CA	ASN	A	46150.905	12.688	-9.956	1.00	0.00	C
ATOM	636	C	ASN	A	46149.929	11.517	-9.931	1.00	0.00	C
ATOM	637	O	ASN	A	46149.305	11.193	-10.942	1.00	0.00	O
ATOM	638	CB	ASN	A	46150.233	13.914	-10.577	1.00	0.00	C
ATOM	639	CG	ASN	A	46149.461	14.730	-9.558	1.00	0.00	C
ATOM	640	OD1	ASN	A	46150.024	15.208	-8.573	1.00	0.00	O
ATOM	641	ND2	ASN	A	46148.164	14.891	-9.790	1.00	0.00	N
ATOM	642	H	ASN	A	46152.249	12.722	-11.592	1.00	0.00	H
ATOM	643	HA	ASN	A	46151.197	12.921	-8.943	1.00	0.00	H
ATOM	644	1HB	ASN	A	46150.990	14.547	-11.017	1.00	0.00	H
ATOM	645	2HB	ASN	A	46149.548	13.590	-11.346	1.00	0.00	H
ATOM	646	1HD2	ASN	A	46147.782	14.480	-10.594	1.00	0.00	H
ATOM	647	2HD2	ASN	A	46147.640	15.414	-9.148	1.00	0.00	H
ATOM	648	N	GLU	A	47149.803	10.889	-8.768	1.00	0.00	N
ATOM	649	CA	GLU	A	47148.906	9.754	-8.603	1.00	0.00	C
ATOM	650	C	GLU	A	47148.706	9.434	-7.126	1.00	0.00	C
ATOM	651	O	GLU	A	47149.665	9.143	-6.412	1.00	0.00	O
ATOM	652	CB	GLU	A	47149.452	8.526	-9.334	1.00	0.00	C
ATOM	653	CG	GLU	A	47150.963	8.373	-9.232	1.00	0.00	C
ATOM	654	CD	GLU	A	47151.518	7.390	-10.243	1.00	0.00	C
ATOM	655	OE1	GLU	A	47151.557	7.732	-11.444	1.00	0.00	O
ATOM	656	OE2	GLU	A	47151.914	6.278	-9.835	1.00	0.00	O

ATOM	657	H	GLU A	47150.329	11.196	-8.002	1.00	0.00	H
ATOM	658	HA	GLU A	47147.951	10.022	-9.033	1.00	0.00	H
ATOM	659	1HB	GLU A	47148.996	7.640	-8.917	1.00	0.00	H
ATOM	660	2HB	GLU A	47149.189	8.596	-10.379	1.00	0.00	H
ATOM	661	1HG	GLU A	47151.419	9.337	-9.401	1.00	0.00	H
ATOM	662	2HG	GLU A	47151.213	8.027	-8.240	1.00	0.00	H
ATOM	663	N	VAL A	48147.460	9.485	-6.673	1.00	0.00	N
ATOM	664	CA	VAL A	48147.149	9.192	-5.280	1.00	0.00	C
ATOM	665	C	VAL A	48147.473	7.740	-4.951	1.00	0.00	C
ATOM	666	O	VAL A	48146.697	6.836	-5.256	1.00	0.00	O
ATOM	667	CB	VAL A	48145.667	9.463	-4.963	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.413	9.366	-3.467	1.00	0.00	C
ATOM	669	CG2	VAL A	48145.247	10.826	-5.495	1.00	0.00	C
ATOM	670	H	VAL A	48146.733	9.719	-7.288	1.00	0.00	H
ATOM	671	HA	VAL A	48147.756	9.837	-4.660	1.00	0.00	H
ATOM	672	HB	VAL A	48145.070	8.709	-5.456	1.00	0.00	H
ATOM	673	1HG1	VAL A	48146.110	10.003	-2.942	1.00	0.00	H
ATOM	674	2HG1	VAL A	48145.547	8.344	-3.145	1.00	0.00	H
ATOM	675	3HG1	VAL A	48144.403	9.683	-3.252	1.00	0.00	H
ATOM	676	1HG2	VAL A	48146.102	11.483	-5.515	1.00	0.00	H
ATOM	677	2HG2	VAL A	48144.486	11.244	-4.852	1.00	0.00	H
ATOM	678	3HG2	VAL A	48144.853	10.716	-6.494	1.00	0.00	H
ATOM	679	N	LEU A	49148.628	7.523	-4.329	1.00	0.00	N
ATOM	680	CA	LEU A	49149.056	6.179	-3.963	1.00	0.00	C
ATOM	681	C	LEU A	49148.967	5.975	-2.457	1.00	0.00	C
ATOM	682	O	LEU A	49149.649	6.651	-1.687	1.00	0.00	O
ATOM	683	CB	LEU A	49150.488	5.931	-4.439	1.00	0.00	C
ATOM	684	CG	LEU A	49150.689	6.006	-5.954	1.00	0.00	C
ATOM	685	CD1	LEU A	49152.159	6.205	-6.288	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.153	4.752	-6.626	1.00	0.00	C
ATOM	687	H	LEU A	49149.206	8.286	-4.112	1.00	0.00	H

ATOM	688	HA	LEU A	49148.397	5.477	-4.449	1.00	0.00	H
ATOM	689	1HB	LEU A	49151.133	6.662	-3.974	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.789	4.948	-4.109	1.00	0.00	H
ATOM	691	HG	LEU A	49150.142	6.855	-6.341	1.00	0.00	H
ATOM	692	1HD1	LEU A	49152.669	5.254	-6.248	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.603	6.881	-5.572	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.250	6.621	-7.280	1.00	0.00	H
ATOM	695	1HD2	LEU A	49149.135	4.922	-6.945	1.00	0.00	H
ATOM	696	2HD2	LEU A	49150.178	3.930	-5.926	1.00	0.00	H
ATOM	697	3HD2	LEU A	49150.763	4.513	-7.483	1.00	0.00	H
ATOM	698	N	ALAA	50148.121	5.041	-2.041	1.00	0.00	N
ATOM	699	CA	ALAA	50147.945	4.752	-0.626	1.00	0.00	C
ATOM	700	C	ALAA	50148.882	3.638	-0.173	1.00	0.00	C
ATOM	701	O	ALAA	50148.766	2.496	-0.616	1.00	0.00	O
ATOM	702	CB	ALAA	50146.498	4.377	-0.339	1.00	0.00	C
ATOM	703	H	ALAA	50147.603	4.535	-2.702	1.00	0.00	H
ATOM	704	HA	ALAA	50148.175	5.652	-0.075	1.00	0.00	H
ATOM	705	1HB	ALAA	50146.198	4.799	0.610	1.00	0.00	H
ATOM	706	2HB	ALAA	50146.406	3.303	-0.300	1.00	0.00	H
ATOM	707	3HB	ALAA	50145.864	4.766	-1.122	1.00	0.00	H
ATOM	708	N	GLYA	51149.813	3.979	0.712	1.00	0.00	N
ATOM	709	CA	GLYA	51150.760	2.998	1.211	1.00	0.00	C
ATOM	710	C	GLYA	51150.106	1.965	2.109	1.00	0.00	C
ATOM	711	O	GLYA	51149.797	2.248	3.266	1.00	0.00	O
ATOM	712	H	GLYA	51149.860	4.905	1.030	1.00	0.00	H
ATOM	713	1HA	GLYA	51151.212	2.492	0.370	1.00	0.00	H
ATOM	714	2HA	GLYA	51151.530	3.507	1.769	1.00	0.00	H
ATOM	715	N	LEU A	52149.894	0.768	1.575	1.00	0.00	N
ATOM	716	CA	LEU A	52149.273	-0.310	2.338	1.00	0.00	C
ATOM	717	C	LEU A	52150.326	-1.142	3.061	1.00	0.00	C
ATOM	718	O	LEU A	52151.468	-1.243	2.613	1.00	0.00	O

ATOM	719	CB	LEU A	52148.444	-1.205	1.414	1.00	0.00	C
ATOM	720	CG	LEU A	52147.167	-0.566	0.868	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.575	-1.421	-0.242	1.00	0.00	C
ATOM	722	CD2	LEU A	52146.154	-0.361	1.984	1.00	0.00	C
ATOM	723	H	LEU A	52150.162	0.603	0.647	1.00	0.00	H
ATOM	724	HA	LEU A	52148.619	0.139	3.071	1.00	0.00	H
ATOM	725	1HB	LEU A	52149.064	-1.496	0.579	1.00	0.00	H
ATOM	726	2HB	LEU A	52148.168	-2.094	1.963	1.00	0.00	H
ATOM	727	HG	LEU A	52147.407	0.402	0.450	1.00	0.00	H
ATOM	728	1HD1	LEU A	52146.553	-2.454	0.074	1.00	0.00	H
ATOM	729	2HD1	LEU A	52147.181	-1.330	-1.131	1.00	0.00	H
ATOM	730	3HD1	LEU A	52145.569	-1.089	-0.455	1.00	0.00	H
ATOM	731	1HD2	LEU A	52145.155	-0.488	1.591	1.00	0.00	H
ATOM	732	2HD2	LEU A	52146.258	0.636	2.386	1.00	0.00	H
ATOM	733	3HD2	LEU A	52146.329	-1.085	2.765	1.00	0.00	H
ATOM	734	N	GLU A	53149.934	-1.737	4.184	1.00	0.00	N
ATOM	735	CA	GLU A	53150.845	-2.562	4.970	1.00	0.00	C
ATOM	736	C	GLU A	53150.352	-4.005	5.036	1.00	0.00	C
ATOM	737	O	GLU A	53149.404	-4.315	5.758	1.00	0.00	O
ATOM	738	CB	GLU A	53150.988	-1.995	6.383	1.00	0.00	C
ATOM	739	CG	GLU A	53151.949	-2.780	7.260	1.00	0.00	C
ATOM	740	CD	GLU A	53151.396	-3.037	8.648	1.00	0.00	C
ATOM	741	OE1	GLU A	53150.544	-2.245	9.104	1.00	0.00	O
ATOM	742	OE2	GLU A	53151.814	-4.030	9.281	1.00	0.00	O
ATOM	743	H	GLU A	53149.011	-1.619	4.490	1.00	0.00	H
ATOM	744	HA	GLU A	53151.809	-2.545	4.486	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.345	-0.977	6.317	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.018	-1.995	6.859	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.150	-3.732	6.789	1.00	0.00	H
ATOM	748	2HG	GLU A	53152.870	-2.223	7.353	1.00	0.00	H
ATOM	749	N	LEU A	54151.002	-4.881	4.279	1.00	0.00	N

ATOM	750	CA	LEU A	54150.631	-6.290	4.251	1.00	0.00	C
ATOM	751	C	LEU A	54150.942	-6.961	5.585	1.00	0.00	C
ATOM	752	O	LEU A	54152.009	-6.752	6.162	1.00	0.00	O
ATOM	753	CB	LEU A	54151.366	-7.013	3.120	1.00	0.00	C
ATOM	754	CG	LEU A	54151.264	-6.341	1.750	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.286	-6.930	0.790	1.00	0.00	C
ATOM	756	CD2	LEU A	54149.857	-6.487	1.190	1.00	0.00	C
ATOM	757	H	LEU A	54151.750	-4.573	3.725	1.00	0.00	H
ATOM	758	HA	LEU A	54149.568	-6.349	4.072	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.412	-7.083	3.386	1.00	0.00	H
ATOM	760	2HB	LEU A	54150.965	-8.011	3.037	1.00	0.00	H
ATOM	761	HG	LEU A	54151.475	-5.287	1.856	1.00	0.00	H
ATOM	762	1HD1	LEU A	54153.278	-6.623	1.087	1.00	0.00	H
ATOM	763	2HD1	LEU A	54152.086	-6.576	-0.211	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.221	-8.007	0.810	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.404	-7.383	1.586	1.00	0.00	H
ATOM	766	2HD2	LEU A	54149.904	-6.554	0.112	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.266	-5.628	1.472	1.00	0.00	H
ATOM	768	N	GLU A	55150.004	-7.769	6.069	1.00	0.00	N
ATOM	769	CA	GLU A	55150.179	-8.471	7.335	1.00	0.00	C
ATOM	770	C	GLU A	55151.238	-9.562	7.211	1.00	0.00	C
ATOM	771	O	GLU A	55151.998	-9.812	8.146	1.00	0.00	O
ATOM	772	CB	GLU A	55148.852	-9.081	7.792	1.00	0.00	C
ATOM	773	CG	GLU A	55147.840	-8.051	8.264	1.00	0.00	C
ATOM	774	CD	GLU A	55146.466	-8.647	8.494	1.00	0.00	C
ATOM	775	OE1	GLU A	55146.189	-9.080	9.633	1.00	0.00	O
ATOM	776	OE2	GLU A	55145.665	-8.681	7.536	1.00	0.00	O
ATOM	777	H	GLU A	55149.175	-7.896	5.562	1.00	0.00	H
ATOM	778	HA	GLU A	55150.505	-7.751	8.071	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.419	-9.629	6.968	1.00	0.00	H
ATOM	780	2HB	GLU A	55149.045	-9.764	8.605	1.00	0.00	H

ATOM	781	1HG	GLU A	55148.188	-7.621	9.191	1.00	0.00	H
ATOM	782	2HG	GLU A	55147.759	-7.275	7.516	1.00	0.00	H
ATOM	783	N	ASP A	56151.281	-10.208	6.050	1.00	0.00	N
ATOM	784	CA	ASP A	56152.247	-11.271	5.804	1.00	0.00	C
ATOM	785	C	ASP A	56153.564	-10.701	5.286	1.00	0.00	C
ATOM	786	O	ASP A	56153.588	-9.960	4.303	1.00	0.00	O
ATOM	787	CB	ASP A	56151.682	-12.279	4.800	1.00	0.00	C
ATOM	788	CG	ASP A	56151.146	-13.527	5.473	1.00	0.00	C
ATOM	789	OD1	ASP A	56151.658	-14.628	5.177	1.00	0.00	O
ATOM	790	OD2	ASP A	56150.215	-13.404	6.297	1.00	0.00	O
ATOM	791	H	ASP A	56150.649	-9.963	5.342	1.00	0.00	H
ATOM	792	HA	ASP A	56152.431	-11.775	6.741	1.00	0.00	H
ATOM	793	1HB	ASP A	56150.877	-11.816	4.249	1.00	0.00	H
ATOM	794	2HB	ASP A	56152.463	-12.571	4.112	1.00	0.00	H
ATOM	795	N	GLU A	57154.658	-11.051	5.955	1.00	0.00	N
ATOM	796	CA	GLU A	57155.979	-10.573	5.561	1.00	0.00	C
ATOM	797	C	GLU A	57156.430	-11.230	4.261	1.00	0.00	C
ATOM	798	O	GLU A	57157.105	-12.259	4.276	1.00	0.00	O
ATOM	799	CB	GLU A	57156.996	-10.855	6.669	1.00	0.00	C
ATOM	800	CG	GLU A	57156.796	-10.001	7.910	1.00	0.00	C
ATOM	801	CD	GLU A	57156.996	-10.782	9.194	1.00	0.00	C
ATOM	802	OE1	GLU A	57157.428	-10.176	10.197	1.00	0.00	O
ATOM	803	OE2	GLU A	57156.719	-12.000	9.197	1.00	0.00	O
ATOM	804	H	GLU A	57154.576	-11.644	6.730	1.00	0.00	H
ATOM	805	HA	GLU A	57155.913	-9.507	5.409	1.00	0.00	H
ATOM	806	1HB	GLU A	57156.919	-11.893	6.957	1.00	0.00	H
ATOM	807	2HB	GLU A	57157.988	-10.669	6.287	1.00	0.00	H
ATOM	808	1HG	GLU A	57157.505	-9.187	7.890	1.00	0.00	H
ATOM	809	2HG	GLU A	57155.792	-9.603	7.900	1.00	0.00	H
ATOM	810	N	CYS A	58156.053	-10.627	3.138	1.00	0.00	N
ATOM	811	CA	CYS A	58156.420	-11.154	1.829	1.00	0.00	C

ATOM	812	C	CYS A	58157.732	-10.544	1.345	1.00	0.00	C
ATOM	813	O	CYS A	58157.972	-9.349	1.513	1.00	0.00	O
ATOM	814	CB	CYS A	58155.309	-10.874	0.814	1.00	0.00	C
ATOM	815	SG	CYS A	58153.948	-12.062	0.864	1.00	0.00	S
ATOM	816	H	CYS A	58155.515	-9.810	3.192	1.00	0.00	H
ATOM	817	HA	CYS A	58156.546	-12.221	1.924	1.00	0.00	H
ATOM	818	1HB	CYS A	58154.897	-9.894	1.005	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.729	-10.894	-0.181	1.00	0.00	H
ATOM	820	HG	CYS A	58154.203	-12.781	1.445	1.00	0.00	H
ATOM	821	N	ALA A	59158.577	-11.375	0.745	1.00	0.00	N
ATOM	822	CA	ALA A	59159.865	-10.917	0.236	1.00	0.00	C
ATOM	823	C	ALA A	59159.687	-10.014	-0.978	1.00	0.00	C
ATOM	824	O	ALA A	59158.952	-10.344	-1.908	1.00	0.00	O
ATOM	825	CB	ALA A	59160.746	-12.107	-0.115	1.00	0.00	C
ATOM	826	H	ALA A	59158.330	-12.317	0.640	1.00	0.00	H
ATOM	827	HA	ALA A	59160.353	-10.358	1.021	1.00	0.00	H
ATOM	828	1HB	ALA A	59161.002	-12.643	0.787	1.00	0.00	H
ATOM	829	2HB	ALA A	59161.648	-11.758	-0.595	1.00	0.00	H
ATOM	830	3HB	ALA A	59160.213	-12.765	-0.786	1.00	0.00	H
ATOM	831	N	GLY A	60160.363	-8.869	-0.962	1.00	0.00	N
ATOM	832	CA	GLY A	60160.266	-7.934	-2.068	1.00	0.00	C
ATOM	833	C	GLY A	60159.640	-6.615	-1.658	1.00	0.00	C
ATOM	834	O	GLY A	60159.930	-5.573	-2.248	1.00	0.00	O
ATOM	835	H	GLY A	60160.933	-8.658	-0.194	1.00	0.00	H
ATOM	836	1HA	GLY A	60161.257	-7.746	-2.453	1.00	0.00	H
ATOM	837	2HA	GLY A	60159.665	-8.377	-2.849	1.00	0.00	H
ATOM	838	N	CYS A	61158.781	-6.658	-0.646	1.00	0.00	N
ATOM	839	CA	CYS A	61158.113	-5.458	-0.159	1.00	0.00	C
ATOM	840	C	CYS A	61159.094	-4.548	0.573	1.00	0.00	C
ATOM	841	O	CYS A	61160.188	-4.971	0.946	1.00	0.00	O
ATOM	842	CB	CYS A	61156.957	-5.833	0.770	1.00	0.00	C

ATOM	843	SG	CYS A	61155.776	-6.994	0.047	1.00	0.00	S
ATOM	844	H	CYS A	61158.591	-7.518	-0.217	1.00	0.00	H
ATOM	845	HA	CYS A	61157.718	-4.928	-1.013	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.357	-6.289	1.665	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.416	-4.937	1.040	1.00	0.00	H
ATOM	848	HG	CYS A	61156.044	-7.882	0.292	1.00	0.00	H
ATOM	849	N	THR A	62158.695	-3.297	0.777	1.00	0.00	N
ATOM	850	CA	THR A	62159.539	-2.327	1.465	1.00	0.00	C
ATOM	851	C	THR A	62159.139	-2.201	2.932	1.00	0.00	C
ATOM	852	O	THR A	62158.254	-2.912	3.407	1.00	0.00	O
ATOM	853	CB	THR A	62159.447	-0.963	0.780	1.00	0.00	C
ATOM	854	OG1	THR A	62158.176	-0.787	0.179	1.00	0.00	O
ATOM	855	CG2	THR A	62160.493	-0.761	-0.297	1.00	0.00	C
ATOM	856	H	THR A	62157.811	-3.019	0.456	1.00	0.00	H
ATOM	857	HA	THR A	62160.558	-2.679	1.411	1.00	0.00	H
ATOM	858	HB	THR A	62159.582	-0.189	1.521	1.00	0.00	H
ATOM	859	HG1	THR A	62157.510	-0.686	0.864	1.00	0.00	H
ATOM	860	1HG2	THR A	62160.029	-0.340	-1.175	1.00	0.00	H
ATOM	861	2HG2	THR A	62160.940	-1.712	-0.546	1.00	0.00	H
ATOM	862	3HG2	THR A	62161.257	-0.089	0.066	1.00	0.00	H
ATOM	863	N	ASP A	63159.797	-1.291	3.642	1.00	0.00	N
ATOM	864	CA	ASP A	63159.510	-1.071	5.055	1.00	0.00	C
ATOM	865	C	ASP A	63158.823	0.274	5.267	1.00	0.00	C
ATOM	866	O	ASP A	63158.994	0.913	6.306	1.00	0.00	O
ATOM	867	CB	ASP A	63160.800	-1.132	5.874	1.00	0.00	C
ATOM	868	CG	ASP A	63161.816	-0.098	5.431	1.00	0.00	C
ATOM	869	OD1	ASP A	63162.969	-0.483	5.143	1.00	0.00	O
ATOM	870	OD2	ASP A	63161.459	1.098	5.371	1.00	0.00	O
ATOM	871	H	ASP A	63160.492	-0.755	3.207	1.00	0.00	H
ATOM	872	HA	ASP A	63158.847	-1.857	5.385	1.00	0.00	H
ATOM	873	1HB	ASP A	63160.568	-0.958	6.914	1.00	0.00	H

ATOM	874	2HB	ASP A	63161.241	-2.113	5.768	1.00	0.00	H
ATOM	875	N	GLY A	64158.045	0.698	4.277	1.00	0.00	N
ATOM	876	CA	GLY A	64157.344	1.966	4.375	1.00	0.00	C
ATOM	877	C	GLY A	64158.028	3.069	3.593	1.00	0.00	C
ATOM	878	O	GLY A	64158.120	4.204	4.059	1.00	0.00	O
ATOM	879	H	GLY A	64157.946	0.148	3.473	1.00	0.00	H
ATOM	880	1HA	GLY A	64156.341	1.839	3.997	1.00	0.00	H
ATOM	881	2HA	GLY A	64157.292	2.255	5.414	1.00	0.00	H
ATOM	882	N	THR A	65158.508	2.736	2.400	1.00	0.00	N
ATOM	883	CA	THR A	65159.188	3.707	1.550	1.00	0.00	C
ATOM	884	C	THR A	65158.823	3.496	0.083	1.00	0.00	C
ATOM	885	O	THR A	65158.776	2.365	-0.399	1.00	0.00	O
ATOM	886	CB	THR A	65160.703	3.602	1.730	1.00	0.00	C
ATOM	887	OG1	THR A	65161.154	2.295	1.424	1.00	0.00	O
ATOM	888	CG2	THR A	65161.162	3.928	3.135	1.00	0.00	C
ATOM	889	H	THR A	65158.403	1.814	2.083	1.00	0.00	H
ATOM	890	HA	THR A	65158.865	4.692	1.850	1.00	0.00	H
ATOM	891	HB	THR A	65161.184	4.295	1.056	1.00	0.00	H
ATOM	892	HG1	THR A	65160.864	2.054	0.541	1.00	0.00	H
ATOM	893	1HG2	THR A	65160.333	4.326	3.701	1.00	0.00	H
ATOM	894	2HG2	THR A	65161.954	4.661	3.094	1.00	0.00	H
ATOM	895	3HG2	THR A	65161.526	3.031	3.613	1.00	0.00	H
ATOM	896	N	PHE A	66158.565	4.594	-0.621	1.00	0.00	N
ATOM	897	CA	PHE A	66158.205	4.530	-2.032	1.00	0.00	C
ATOM	898	C	PHE A	66159.340	5.050	-2.907	1.00	0.00	C
ATOM	899	O	PHE A	66159.609	6.250	-2.942	1.00	0.00	O
ATOM	900	CB	PHE A	66156.933	5.338	-2.293	1.00	0.00	C
ATOM	901	CG	PHE A	66156.226	4.951	-3.560	1.00	0.00	C
ATOM	902	CD1	PHE A	66155.795	3.648	-3.758	1.00	0.00	C
ATOM	903	CD2	PHE A	66155.992	5.888	-4.553	1.00	0.00	C
ATOM	904	CE1	PHE A	66155.145	3.289	-4.923	1.00	0.00	C

ATOM	905	CE2	PHE A	66155.343	5.534	-5.721	1.00	0.00	C
ATOM	906	CZ	PHE A	66154.919	4.232	-5.906	1.00	0.00	C
ATOM	907	H	PHE A	66158.618	5.468	-0.181	1.00	0.00	H
ATOM	908	HA	PHE A	66158.020	3.494	-2.280	1.00	0.00	H
ATOM	909	1HB	PHE A	66156.247	5.191	-1.472	1.00	0.00	H
ATOM	910	2HB	PHE A	66157.188	6.385	-2.360	1.00	0.00	H
ATOM	911	HD1	PHE A	66155.971	2.909	-2.990	1.00	0.00	H
ATOM	912	HD2	PHE A	66156.324	6.906	-4.409	1.00	0.00	H
ATOM	913	HE1	PHE A	66154.815	2.270	-5.065	1.00	0.00	H
ATOM	914	HE2	PHE A	66155.167	6.273	-6.487	1.00	0.00	H
ATOM	915	HZ	PHE A	66154.411	3.953	-6.818	1.00	0.00	H
ATOM	916	N	ARG A	67160.001	4.139	-3.614	1.00	0.00	N
ATOM	917	CA	ARG A	67161.107	4.506	-4.490	1.00	0.00	C
ATOM	918	C	ARG A	67162.211	5.212	-3.708	1.00	0.00	C
ATOM	919	O	ARG A	67162.933	6.048	-4.251	1.00	0.00	O
ATOM	920	CB	ARG A	67160.612	5.408	-5.622	1.00	0.00	C
ATOM	921	CG	ARG A	67159.489	4.794	-6.441	1.00	0.00	C
ATOM	922	CD	ARG A	67158.923	5.788	-7.443	1.00	0.00	C
ATOM	923	NE	ARG A	67157.777	5.245	-8.167	1.00	0.00	N
ATOM	924	CZ	ARG A	67157.880	4.402	-9.192	1.00	0.00	C
ATOM	925	NH1	ARG A	67159.073	4.005	-9.618	1.00	0.00	N
ATOM	926	NH2	ARG A	67156.787	3.955	-9.795	1.00	0.00	N
ATOM	927	H	ARG A	67159.739	3.197	-3.544	1.00	0.00	H
ATOM	928	HA	ARG A	67161.509	3.598	-4.915	1.00	0.00	H
ATOM	929	1HB	ARG A	67160.253	6.334	-5.197	1.00	0.00	H
ATOM	930	2HB	ARG A	67161.437	5.622	-6.285	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.873	3.939	-6.977	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.699	4.480	-5.775	1.00	0.00	H
ATOM	933	1HD	ARG A	67158.613	6.677	-6.912	1.00	0.00	H
ATOM	934	2HD	ARG A	67159.697	6.046	-8.152	1.00	0.00	H
ATOM	935	HE	ARG A	67156.884	5.521	-7.874	1.00	0.00	H

ATOM	936	1HH1	ARG A	67159.902	4.339	-9.169	1.00	0.00	H
ATOM	937	2HH1	ARG A	67159.143	3.372	-10.389	1.00	0.00	H
ATOM	938	1HH2	ARG A	67155.885	4.251	-9.479	1.00	0.00	H
ATOM	939	2HH2	ARG A	67156.864	3.323	-10.566	1.00	0.00	H
ATOM	940	N	GLY A	68162.335	4.871	-2.429	1.00	0.00	N
ATOM	941	CA	GLY A	68163.353	5.483	-1.595	1.00	0.00	C
ATOM	942	C	GLY A	68162.794	6.570	-0.696	1.00	0.00	C
ATOM	943	O	GLY A	68163.408	6.925	0.310	1.00	0.00	O
ATOM	944	H	GLY A	68161.732	4.199	-2.049	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.803	4.719	-0.979	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.112	5.912	-2.231	1.00	0.00	H
ATOM	947	N	THR A	69161.630	7.102	-1.058	1.00	0.00	N
ATOM	948	CA	THR A	69160.995	8.154	-0.275	1.00	0.00	C
ATOM	949	C	THR A	69160.179	7.565	0.871	1.00	0.00	C
ATOM	950	O	THR A	69159.128	6.961	0.651	1.00	0.00	O
ATOM	951	CB	THR A	69160.098	9.013	-1.167	1.00	0.00	C
ATOM	952	OG1	THR A	69160.773	9.370	-2.361	1.00	0.00	O
ATOM	953	CG2	THR A	69159.637	10.290	-0.501	1.00	0.00	C
ATOM	954	H	THR A	69161.188	6.779	-1.870	1.00	0.00	H
ATOM	955	HA	THR A	69161.776	8.776	0.139	1.00	0.00	H
ATOM	956	HB	THR A	69159.220	8.442	-1.432	1.00	0.00	H
ATOM	957	HG1	THR A	69161.532	9.917	-2.148	1.00	0.00	H
ATOM	958	1HG2	THR A	69159.314	10.994	-1.255	1.00	0.00	H
ATOM	959	2HG2	THR A	69160.453	10.717	0.064	1.00	0.00	H
ATOM	960	3HG2	THR A	69158.814	10.073	0.164	1.00	0.00	H
ATOM	961	N	ARG A	70160.668	7.743	2.093	1.00	0.00	N
ATOM	962	CA	ARG A	70159.984	7.230	3.273	1.00	0.00	C
ATOM	963	C	ARG A	70158.798	8.116	3.643	1.00	0.00	C
ATOM	964	O	ARG A	70158.936	9.332	3.770	1.00	0.00	O
ATOM	965	CB	ARG A	70160.953	7.139	4.452	1.00	0.00	C
ATOM	966	CG	ARG A	70160.326	6.570	5.714	1.00	0.00	C

ATOM	967	CD	ARG A	70160.985	7.127	6.965	1.00	0.00	C
ATOM	968	NE	ARG A	70162.129	6.321	7.387	1.00	0.00	N
ATOM	969	CZ	ARG A	70162.855	6.575	8.472	1.00	0.00	C
ATOM	970	NH1	ARG A	70162.559	7.610	9.250	1.00	0.00	N
ATOM	971	NH2	ARG A	70163.880	5.793	8.782	1.00	0.00	N
ATOM	972	H	ARG A	70161.509	8.234	2.205	1.00	0.00	H
ATOM	973	HA	ARG A	70159.619	6.241	3.041	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.783	6.507	4.174	1.00	0.00	H
ATOM	975	2HB	ARG A	70161.325	8.128	4.676	1.00	0.00	H
ATOM	976	1HG	ARG A	70159.277	6.825	5.730	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.437	5.495	5.708	1.00	0.00	H
ATOM	978	1HD	ARG A	70161.321	8.133	6.762	1.00	0.00	H
ATOM	979	2HD	ARG A	70160.257	7.147	7.763	1.00	0.00	H
ATOM	980	HE	ARG A	70162.369	5.551	6.830	1.00	0.00	H
ATOM	981	1HH1	ARG A	70161.788	8.203	9.022	1.00	0.00	H
ATOM	982	2HH1	ARG A	70163.108	7.795	10.066	1.00	0.00	H
ATOM	983	1HH2	ARG A	70164.106	5.012	8.201	1.00	0.00	H
ATOM	984	2HH2	ARG A	70164.426	5.984	9.599	1.00	0.00	H
ATOM	985	N	TYR A	71157.633	7.498	3.811	1.00	0.00	N
ATOM	986	CA	TYR A	71156.424	8.231	4.165	1.00	0.00	C
ATOM	987	C	TYR A	71155.976	7.891	5.583	1.00	0.00	C
ATOM	988	O	TYR A	71155.657	8.779	6.373	1.00	0.00	O
ATOM	989	CB	TYR A	71155.302	7.914	3.175	1.00	0.00	C
ATOM	990	CG	TYR A	71155.508	8.530	1.808	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.560	9.908	1.648	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.651	7.731	0.681	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.748	10.475	0.401	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.840	8.290	-0.569	1.00	0.00	C
ATOM	995	CZ	TYR A	71155.888	9.661	-0.703	1.00	0.00	C
ATOM	996	OH	TYR A	71156.075	10.221	-1.946	1.00	0.00	O
ATOM	997	H	TYR A	71157.587	6.526	3.695	1.00	0.00	H

ATOM	998	HA	TYR A	71156.648	9.286	4.115	1.00	0.00	H
ATOM	999	1HB	TYR A	71155.234	6.844	3.048	1.00	0.00	H
ATOM	1000	2HB	TYR A	71154.368	8.285	3.569	1.00	0.00	H
ATOM	1001	HD1	TYR A	71155.450	10.542	2.515	1.00	0.00	H
ATOM	1002	HD2	TYR A	71155.613	6.657	0.788	1.00	0.00	H
ATOM	1003	HE1	TYR A	71155.785	11.549	0.297	1.00	0.00	H
ATOM	1004	HE2	TYR A	71155.950	7.654	-1.435	1.00	0.00	H
ATOM	1005	HH	TYR A	71155.283	10.101	-2.476	1.00	0.00	H
ATOM	1006	N	PHE A	72155.956	6.600	5.898	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.548	6.144	7.222	1.00	0.00	C
ATOM	1008	C	PHE A	72156.530	5.113	7.768	1.00	0.00	C
ATOM	1009	O	PHE A	72157.388	4.612	7.042	1.00	0.00	O
ATOM	1010	CB	PHE A	72154.141	5.546	7.167	1.00	0.00	C
ATOM	1011	CG	PHE A	72153.971	4.509	6.093	1.00	0.00	C
ATOM	1012	CD1	PHE A	72153.819	4.884	4.768	1.00	0.00	C
ATOM	1013	CD2	PHE A	72153.963	3.161	6.410	1.00	0.00	C
ATOM	1014	CE1	PHE A	72153.663	3.932	3.779	1.00	0.00	C
ATOM	1015	CE2	PHE A	72153.806	2.204	5.425	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.657	2.590	4.107	1.00	0.00	C
ATOM	1017	H	PHE A	72156.222	5.940	5.226	1.00	0.00	H
ATOM	1018	HA	PHE A	72155.540	7.000	7.880	1.00	0.00	H
ATOM	1019	1HB	PHE A	72153.917	5.082	8.115	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.428	6.338	6.982	1.00	0.00	H
ATOM	1021	HD1	PHE A	72153.824	5.932	4.509	1.00	0.00	H
ATOM	1022	HD2	PHE A	72154.080	2.857	7.440	1.00	0.00	H
ATOM	1023	HE1	PHE A	72153.545	4.237	2.749	1.00	0.00	H
ATOM	1024	HE2	PHE A	72153.803	1.155	5.685	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.534	1.844	3.335	1.00	0.00	H
ATOM	1026	N	THR A	73156.397	4.800	9.053	1.00	0.00	N
ATOM	1027	CA	THR A	73157.272	3.828	9.698	1.00	0.00	C
ATOM	1028	C	THR A	73156.519	2.538	10.005	1.00	0.00	C

ATOM 1029 O THR A 73155.738 2.473 10.954 1.00 0.00 O
 ATOM 1030 CB THR A 73157.854 4.411 10.986 1.00 0.00 C
 ATOM 1031 OG1 THRA 73158.089 5.800 10.847 1.00 0.00 O
 ATOM 1032 CG2 THR A 73159.160 3.764 11.400 1.00 0.00 C
 ATOM 1033 H THR A 73155.693 5.232 9.581 1.00 0.00 H
 ATOM 1034 HA THR A 73158.080 3.606 9.016 1.00 0.00 H
 ATOM 1035 HB THR A 73157.145 4.265 11.788 1.00 0.00 H
 ATOM 1036 HG1 THRA 73158.193 6.197 11.715 1.00 0.00 H
 ATOM 1037 1HG2 THR A 73159.299 3.884 12.464 1.00 0.00 H
 ATOM 1038 2HG2 THR A 73159.977 4.235 10.874 1.00 0.00 H
 ATOM 1039 3HG2 THR A 73159.133 2.712 11.155 1.00 0.00 H
 ATOM 1040 N CYS A 74156.759 1.511 9.195 1.00 0.00 N
 ATOM 1041 CA CYS A 74156.104 0.222 9.380 1.00 0.00 C
 ATOM 1042 C CYS A 74157.120 -0.916 9.346 1.00 0.00 C
 ATOM 1043 O CYS A 74158.299 -0.699 9.070 1.00 0.00 O
 ATOM 1044 CB CYS A 74155.043 0.005 8.299 1.00 0.00 C
 ATOM 1045 SG CYS A 74153.400 0.615 8.745 1.00 0.00 S
 ATOM 1046 H CYS A 74157.392 1.624 8.455 1.00 0.00 H
 ATOM 1047 HA CYS A 74155.623 0.231 10.346 1.00 0.00 H
 ATOM 1048 1HB CYS A 74155.349 0.516 7.398 1.00 0.00 H
 ATOM 1049 2HB CYS A 74154.958 -1.052 8.095 1.00 0.00 H
 ATOM 1050 HG CYS A 74153.461 1.565 8.873 1.00 0.00 H
 ATOM 1051 N ALA A 75156.654 -2.127 9.629 1.00 0.00 N
 ATOM 1052 CA ALA A 75157.521 -3.299 9.631 1.00 0.00 C
 ATOM 1053 C ALA A 75158.160 -3.510 8.263 1.00 0.00 C
 ATOM 1054 O ALA A 75157.646 -3.043 7.247 1.00 0.00 O
 ATOM 1055 CB ALA A 75156.737 -4.534 10.046 1.00 0.00 C
 ATOM 1056 H ALA A 75155.703 -2.236 9.841 1.00 0.00 H
 ATOM 1057 HA ALA A 75158.301 -3.134 10.359 1.00 0.00 H
 ATOM 1058 1HB ALA A 75157.146 -5.403 9.551 1.00 0.00 H
 ATOM 1059 2HB ALA A 75155.701 -4.415 9.767 1.00 0.00 H

ATOM 1060 3HB ALA A 75156.810 -4.663 11.116 1.00 0.00 H
 ATOM 1061 N LEU A 76159.285 -4.219 8.243 1.00 0.00 N
 ATOM 1062 CA LEU A 76159.994 -4.493 6.999 1.00 0.00 C
 ATOM 1063 C LEU A 76159.283 -5.576 6.194 1.00 0.00 C
 ATOM 1064 O LEU A 76158.703 -6.503 6.759 1.00 0.00 O
 ATOM 1065 CB LEU A 76161.433 -4.921 7.291 1.00 0.00 C
 ATOM 1066 CG LEU A 76162.351 -3.804 7.794 1.00 0.00 C
 ATOM 1067 CD1 LEU A 76162.435 -3.826 9.312 1.00 0.00 C
 ATOM 1068 CD2 LEU A 76163.736 -3.934 7.179 1.00 0.00 C
 ATOM 1069 H LEU A 76159.645 -4.567 9.085 1.00 0.00 H
 ATOM 1070 HA LEU A 76160.009 -3.583 6.419 1.00 0.00 H
 ATOM 1071 1HB LEU A 76161.410 -5.702 8.036 1.00 0.00 H
 ATOM 1072 2HB LEU A 76161.858 -5.324 6.383 1.00 0.00 H
 ATOM 1073 HG LEU A 76161.940 -2.849 7.497 1.00 0.00 H
 ATOM 1074 1HD1 LEU A 76162.427 -4.848 9.658 1.00 0.00 H
 ATOM 1075 2HD1 LEU A 76161.591 -3.298 9.728 1.00 0.00 H
 ATOM 1076 3HD1 LEU A 76163.350 -3.346 9.628 1.00 0.00 H
 ATOM 1077 1HD2 LEU A 76163.645 -4.063 6.111 1.00 0.00 H
 ATOM 1078 2HD2 LEU A 76164.240 -4.790 7.603 1.00 0.00 H
 ATOM 1079 3HD2 LEU A 76164.307 -3.041 7.386 1.00 0.00 H
 ATOM 1080 N LYS A 77159.332 -5.452 4.872 1.00 0.00 N
 ATOM 1081 CA LYS A 77158.692 -6.421 3.989 1.00 0.00 C
 ATOM 1082 C LYS A 77157.190 -6.481 4.245 1.00 0.00 C
 ATOM 1083 O LYS A 77156.565 -7.528 4.083 1.00 0.00 O
 ATOM 1084 CB LYS A 77159.310 -7.807 4.186 1.00 0.00 C
 ATOM 1085 CG LYS A 77160.806 -7.849 3.921 1.00 0.00 C
 ATOM 1086 CD LYS A 77161.117 -7.641 2.448 1.00 0.00 C
 ATOM 1087 CE LYS A 77162.396 -6.843 2.255 1.00 0.00 C
 ATOM 1088 NZ LYS A 77163.575 -7.532 2.849 1.00 0.00 N
 ATOM 1089 H LYS A 77159.809 -4.692 4.480 1.00 0.00 H
 ATOM 1090 HA LYS A 77158.860 -6.103 2.971 1.00 0.00 H

ATOM	1091	1HB	LYS A	77159.138	-8.124	5.203	1.00	0.00	H
ATOM	1092	2HB	LYS A	77158.828	-8.502	3.515	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.285	-7.069	4.493	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.190	-8.811	4.228	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.231	-8.604	1.973	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.298	-7.107	1.989	1.00	0.00	H
ATOM	1097	1HE	LYS A	77162.566	-6.708	1.197	1.00	0.00	H
ATOM	1098	2HE	LYS A	77162.279	-5.879	2.726	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77163.556	-8.544	2.608	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77163.563	-7.433	3.884	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77164.455	-7.116	2.482	1.00	0.00	H
ATOM	1102	N	LYS A	78156.617	-5.350	4.644	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.188	-5.274	4.922	1.00	0.00	C
ATOM	1104	C	LYS A	78154.619	-3.926	4.490	1.00	0.00	C
ATOM	1105	O	LYS A	78153.788	-3.339	5.184	1.00	0.00	O
ATOM	1106	CB	LYS A	78154.924	-5.500	6.412	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.426	-6.841	6.922	1.00	0.00	C
ATOM	1108	CD	LYS A	78155.126	-7.022	8.401	1.00	0.00	C
ATOM	1109	CE	LYS A	78153.865	-7.842	8.618	1.00	0.00	C
ATOM	1110	NZ	LYS A	78153.075	-7.350	9.780	1.00	0.00	N
ATOM	1111	H	LYS A	78157.169	-4.548	4.754	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.699	-6.054	4.357	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.414	-4.719	6.974	1.00	0.00	H
ATOM	1114	2HB	LYS A	78153.860	-5.447	6.589	1.00	0.00	H
ATOM	1115	1HG	LYS A	78154.941	-7.631	6.368	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.494	-6.896	6.771	1.00	0.00	H
ATOM	1117	1HD	LYS A	78155.958	-7.528	8.868	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.995	-6.049	8.853	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.256	-7.784	7.728	1.00	0.00	H
ATOM	1120	2HE	LYS A	78154.146	-8.870	8.794	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78153.198	-6.322	9.886	1.00	0.00	H

ATOM 1122 2HZ LYS A 78153.391 -7.818 10.652 1.00 0.00 H
 ATOM 1123 3HZ LYS A 78152.065 -7.553 9.636 1.00 0.00 H
 ATOM 1124 N ALA A 79155.073 -3.438 3.340 1.00 0.00 N
 ATOM 1125 CA ALA A 79154.611 -2.159 2.815 1.00 0.00 C
 ATOM 1126 C ALA A 79154.473 -2.206 1.297 1.00 0.00 C
 ATOM 1127 O ALA A 79155.469 -2.255 0.575 1.00 0.00 O
 ATOM 1128 CB ALA A 79155.562 -1.046 3.227 1.00 0.00 C
 ATOM 1129 H ALA A 79155.735 -3.953 2.831 1.00 0.00 H
 ATOM 1130 HA ALA A 79153.643 -1.953 3.249 1.00 0.00 H
 ATOM 1131 1HB ALA A 79156.567 -1.436 3.292 1.00 0.00 H
 ATOM 1132 2HB ALA A 79155.265 -0.656 4.190 1.00 0.00 H
 ATOM 1133 3HB ALA A 79155.529 -0.255 2.494 1.00 0.00 H
 ATOM 1134 N LEU A 80153.233 -2.190 0.821 1.00 0.00 N
 ATOM 1135 CA LEU A 80152.964 -2.230 -0.613 1.00 0.00 C
 ATOM 1136 C LEU A 80152.171 -1.005 -1.052 1.00 0.00 C
 ATOM 1137 O LEU A 80151.011 -0.836 -0.677 1.00 0.00 O
 ATOM 1138 CB LEU A 80152.198 -3.505 -0.972 1.00 0.00 C
 ATOM 1139 CG LEU A 80151.803 -3.630 -2.444 1.00 0.00 C
 ATOM 1140 CD1 LEU A 80152.954 -4.198 -3.260 1.00 0.00 C
 ATOM 1141 CD2 LEU A 80150.564 -4.499 -2.591 1.00 0.00 C
 ATOM 1142 H LEU A 80152.480 -2.151 1.447 1.00 0.00 H
 ATOM 1143 HA LEU A 80153.913 -2.235 -1.128 1.00 0.00 H
 ATOM 1144 1HB LEU A 80152.812 -4.355 -0.712 1.00 0.00 H
 ATOM 1145 2HB LEU A 80151.297 -3.538 -0.379 1.00 0.00 H
 ATOM 1146 HG LEU A 80151.573 -2.648 -2.834 1.00 0.00 H
 ATOM 1147 1HD1 LEU A 80153.063 -5.251 -3.044 1.00 0.00 H
 ATOM 1148 2HD1 LEU A 80153.868 -3.683 -3.001 1.00 0.00 H
 ATOM 1149 3HD1 LEU A 80152.752 -4.064 -4.312 1.00 0.00 H
 ATOM 1150 1HD2 LEU A 80149.693 -3.939 -2.281 1.00 0.00 H
 ATOM 1151 2HD2 LEU A 80150.665 -5.378 -1.973 1.00 0.00 H
 ATOM 1152 3HD2 LEU A 80150.452 -4.796 -3.624 1.00 0.00 H

ATOM	1153	N	PHE A	81152.805	-0.150	-1.849	1.00	0.00	N
ATOM	1154	CA	PHE A	81152.158	1.061	-2.340	1.00	0.00	C
ATOM	1155	C	PHE A	81151.313	0.763	-3.574	1.00	0.00	C
ATOM	1156	O	PHE A	81151.726	0.010	-4.455	1.00	0.00	O
ATOM	1157	CB	PHE A	81153.206	2.125	-2.670	1.00	0.00	C
ATOM	1158	CG	PHE A	81153.920	2.660	-1.461	1.00	0.00	C
ATOM	1159	CD1	PHE A	81153.537	3.860	-0.888	1.00	0.00	C
ATOM	1160	CD2	PHE A	81154.977	1.960	-0.900	1.00	0.00	C
ATOM	1161	CE1	PHE A	81154.192	4.354	0.224	1.00	0.00	C
ATOM	1162	CE2	PHE A	81155.636	2.449	0.211	1.00	0.00	C
ATOM	1163	CZ	PHE A	81155.243	3.648	0.774	1.00	0.00	C
ATOM	1164	H	PHE A	81153.730	-0.339	-2.114	1.00	0.00	H
ATOM	1165	HA	PHE A	81151.514	1.433	-1.557	1.00	0.00	H
ATOM	1166	1HB	PHE A	81153.945	1.700	-3.332	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.722	2.955	-3.165	1.00	0.00	H
ATOM	1168	HD1	PHE A	81152.714	4.414	-1.317	1.00	0.00	H
ATOM	1169	HD2	PHE A	81155.285	1.023	-1.339	1.00	0.00	H
ATOM	1170	HE1	PHE A	81153.883	5.292	0.661	1.00	0.00	H
ATOM	1171	HE2	PHE A	81156.457	1.894	0.641	1.00	0.00	H
ATOM	1172	HZ	PHE A	81155.757	4.032	1.644	1.00	0.00	H
ATOM	1173	N	VAL A	82150.126	1.359	-3.631	1.00	0.00	N
ATOM	1174	CA	VAL A	82149.223	1.158	-4.757	1.00	0.00	C
ATOM	1175	C	VAL A	82148.323	2.371	-4.966	1.00	0.00	C
ATOM	1176	O	VAL A	82148.239	3.249	-4.107	1.00	0.00	O
ATOM	1177	CB	VAL A	82148.343	-0.089	-4.555	1.00	0.00	C
ATOM	1178	CG1	VAL A	82149.177	-1.357	-4.665	1.00	0.00	C
ATOM	1179	CG2	VAL A	82147.629	-0.028	-3.213	1.00	0.00	C
ATOM	1180	H	VAL A	82149.852	1.950	-2.898	1.00	0.00	H
ATOM	1181	HA	VAL A	82149.823	1.010	-5.643	1.00	0.00	H
ATOM	1182	HB	VAL A	82147.596	-0.109	-5.334	1.00	0.00	H
ATOM	1183	1HG1	VAL A	82149.983	-1.321	-3.947	1.00	0.00	H

ATOM 1184 2HG1 VAL A 82149.587 -1.432 -5.661 1.00 0.00 H
 ATOM 1185 3HG1 VAL A 82148.556 -2.216 -4.465 1.00 0.00 H
 ATOM 1186 1HG2 VAL A 82146.883 -0.806 -3.165 1.00 0.00 H
 ATOM 1187 2HG2 VAL A 82147.152 0.935 -3.103 1.00 0.00 H
 ATOM 1188 3HG2 VAL A 82148.346 -0.167 -2.417 1.00 0.00 H
 ATOM 1189 N LYS A 83147.653 2.413 -6.112 1.00 0.00 N
 ATOM 1190 CA LYS A 83146.759 3.518 -6.435 1.00 0.00 C
 ATOM 1191 C LYS A 83145.547 3.527 -5.510 1.00 0.00 C
 ATOM 1192 O LYS A 83144.812 2.544 -5.422 1.00 0.00 O
 ATOM 1193 CB LYS A 83146.301 3.423 -7.892 1.00 0.00 C
 ATOM 1194 CG LYS A 83147.421 3.629 -8.897 1.00 0.00 C
 ATOM 1195 CD LYS A 83147.023 3.147 -10.283 1.00 0.00 C
 ATOM 1196 CE LYS A 83147.507 4.099 -11.366 1.00 0.00 C
 ATOM 1197 NZ LYS A 83147.866 3.380 -12.619 1.00 0.00 N
 ATOM 1198 H LYS A 83147.762 1.683 -6.757 1.00 0.00 H
 ATOM 1199 HA LYS A 83147.306 4.439 -6.299 1.00 0.00 H
 ATOM 1200 1HB LYS A 83145.873 2.445 -8.058 1.00 0.00 H
 ATOM 1201 2HB LYS A 83145.544 4.173 -8.070 1.00 0.00 H
 ATOM 1202 1HG LYS A 83147.658 4.682 -8.948 1.00 0.00 H
 ATOM 1203 2HG LYS A 83148.292 3.079 -8.570 1.00 0.00 H
 ATOM 1204 1HD LYS A 83147.459 2.174 -10.454 1.00 0.00 H
 ATOM 1205 2HD LYS A 83145.947 3.075 -10.333 1.00 0.00 H
 ATOM 1206 1HE LYS A 83146.721 4.808 -11.580 1.00 0.00 H
 ATOM 1207 2HE LYS A 83148.376 4.627 -11.001 1.00 0.00 H
 ATOM 1208 1HZ LYS A 83147.045 3.341 -13.256 1.00 0.00 H
 ATOM 1209 2HZ LYS A 83148.167 2.410 -12.400 1.00 0.00 H
 ATOM 1210 3HZ LYS A 83148.645 3.872 -13.102 1.00 0.00 H
 ATOM 1211 N LEU A 84145.347 4.646 -4.823 1.00 0.00 N
 ATOM 1212 CA LEU A 84144.226 4.791 -3.902 1.00 0.00 C
 ATOM 1213 C LEU A 84142.898 4.603 -4.630 1.00 0.00 C
 ATOM 1214 O LEU A 84141.947 4.052 -4.074 1.00 0.00 O

ATOM	1215	CB	LEU A	84144.268	6.169	-3.238	1.00	0.00	C
ATOM	1216	CG	LEU A	84143.081	6.486	-2.326	1.00	0.00	C
ATOM	1217	CD1	LEU A	84143.224	5.767	-0.994	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.961	7.988	-2.113	1.00	0.00	C
ATOM	1219	H	LEU A	84145.970	5.394	-4.938	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.320	4.031	-3.143	1.00	0.00	H
ATOM	1221	1HB	LEU A	84145.173	6.234	-2.652	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.307	6.918	-4.014	1.00	0.00	H
ATOM	1223	HG	LEU A	84142.172	6.140	-2.796	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84142.368	5.985	-0.373	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84144.122	6.103	-0.498	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84143.283	4.702	-1.164	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84142.120	8.193	-1.467	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84142.812	8.475	-3.065	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84143.866	8.360	-1.656	1.00	0.00	H
ATOM	1230	N	LYS A	85142.840	5.064	-5.874	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.630	4.946	-6.678	1.00	0.00	C
ATOM	1232	C	LYS A	85141.289	3.482	-6.943	1.00	0.00	C
ATOM	1233	O	LYS A	85140.129	3.137	-7.171	1.00	0.00	O
ATOM	1234	CB	LYS A	85141.799	5.690	-8.004	1.00	0.00	C
ATOM	1235	CG	LYS A	85143.086	5.346	-8.735	1.00	0.00	C
ATOM	1236	CD	LYS A	85143.011	5.729	-10.204	1.00	0.00	C
ATOM	1237	CE	LYS A	85142.658	4.534	-11.076	1.00	0.00	C
ATOM	1238	NZ	LYS A	85143.845	4.006	-11.803	1.00	0.00	N
ATOM	1239	H	LYS A	85143.631	5.494	-6.263	1.00	0.00	H
ATOM	1240	HA	LYS A	85140.820	5.396	-6.124	1.00	0.00	H
ATOM	1241	1HB	LYS A	85140.967	5.446	-8.649	1.00	0.00	H
ATOM	1242	2HB	LYS A	85141.793	6.753	-7.811	1.00	0.00	H
ATOM	1243	1HG	LYS A	85143.904	5.880	-8.275	1.00	0.00	H
ATOM	1244	2HG	LYS A	85143.259	4.282	-8.657	1.00	0.00	H
ATOM	1245	1HD	LYS A	85142.255	6.489	-10.331	1.00	0.00	H

ATOM	1246	2HD	LYS A	85143.971	6.117	-10.514	1.00	0.00	H
ATOM	1247	1HE	LYS A	85142.255	3.752	-10.448	1.00	0.00	H
ATOM	1248	2HE	LYS A	85141.911	4.837	-11.794	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85143.815	2.966	-11.830	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85144.720	4.302	-11.326	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85143.857	4.367	-12.779	1.00	0.00	H
ATOM	1252	N	SER A	86142.305	2.625	-6.914	1.00	0.00	N
ATOM	1253	CA	SER A	86142.110	1.200	-7.152	1.00	0.00	C
ATOM	1254	C	SER A	86142.025	0.432	-5.835	1.00	0.00	C
ATOM	1255	O	SER A	86142.396	-0.739	-5.764	1.00	0.00	O
ATOM	1256	CB	SER A	86143.248	0.644	-8.007	1.00	0.00	C
ATOM	1257	OG	SER A	86143.129	1.068	-9.354	1.00	0.00	O
ATOM	1258	H	SER A	86143.208	2.958	-6.728	1.00	0.00	H
ATOM	1259	HA	SER A	86141.179	1.078	-7.685	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.193	0.991	-7.616	1.00	0.00	H
ATOM	1261	2HB	SER A	86143.223	-0.437	-7.979	1.00	0.00	H
ATOM	1262	HG	SER A	86142.218	0.969	-9.642	1.00	0.00	H
ATOM	1263	N	CYS A	87141.536	1.101	-4.796	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.402	0.481	-3.483	1.00	0.00	C
ATOM	1265	C	CYS A	87139.936	0.392	-3.070	1.00	0.00	C
ATOM	1266	O	CYS A	87139.121	1.231	-3.453	1.00	0.00	O
ATOM	1267	CB	CYS A	87142.190	1.273	-2.438	1.00	0.00	C
ATOM	1268	SG	CYS A	87143.964	1.374	-2.773	1.00	0.00	S
ATOM	1269	H	CYS A	87141.256	2.032	-4.914	1.00	0.00	H
ATOM	1270	HA	CYS A	87141.807	-0.518	-3.544	1.00	0.00	H
ATOM	1271	1HB	CYS A	87141.806	2.283	-2.399	1.00	0.00	H
ATOM	1272	2HB	CYS A	87142.062	0.808	-1.472	1.00	0.00	H
ATOM	1273	HG	CYS A	87144.411	1.556	-1.943	1.00	0.00	H
ATOM	1274	N	ARG A	88139.607	-0.632	-2.286	1.00	0.00	N
ATOM	1275	CA	ARG A	88138.238	-0.829	-1.823	1.00	0.00	C
ATOM	1276	C	ARG A	88138.194	-0.971	-0.302	1.00	0.00	C

ATOM 1277 O ARG A 88139.090 -1.563 0.299 1.00 0.00 O
 ATOM 1278 CB ARG A 88137.630 -2.070 -2.481 1.00 0.00 C
 ATOM 1279 CG ARG A 88136.804 -1.758 -3.719 1.00 0.00 C
 ATOM 1280 CD ARG A 88135.321 -1.676 -3.394 1.00 0.00 C
 ATOM 1281 NE ARG A 88134.498 -2.278 -4.440 1.00 0.00 N
 ATOM 1282 CZ ARG A 88134.378 -3.590 -4.626 1.00 0.00 C
 ATOM 1283 NH1 ARG A 88135.026 -4.441 -3.839 1.00 0.00 N
 ATOM 1284 NH2 ARG A 88133.607 -4.054 -5.601 1.00 0.00 N
 ATOM 1285 H ARG A 88140.300 -1.268 -2.014 1.00 0.00 H
 ATOM 1286 HA ARG A 88137.663 0.038 -2.110 1.00 0.00 H
 ATOM 1287 1HB ARG A 88138.427 -2.739 -2.766 1.00 0.00 H
 ATOM 1288 2HB ARG A 88136.991 -2.567 -1.766 1.00 0.00 H
 ATOM 1289 1HG ARG A 88137.126 -0.811 -4.126 1.00 0.00 H
 ATOM 1290 2HG ARG A 88136.961 -2.537 -4.450 1.00 0.00 H
 ATOM 1291 1HD ARG A 88135.140 -2.193 -2.464 1.00 0.00 H
 ATOM 1292 2HD ARG A 88135.047 -0.636 -3.286 1.00 0.00 H
 ATOM 1293 HE ARG A 88134.008 -1.672 -5.035 1.00 0.00 H
 ATOM 1294 1HH1 ARG A 88135.608 -4.098 -3.103 1.00 0.00 H
 ATOM 1295 2HH1 ARG A 88134.932 -5.426 -3.984 1.00 0.00 H
 ATOM 1296 1HH2 ARG A 88133.117 -3.417 -6.195 1.00 0.00 H
 ATOM 1297 2HH2 ARG A 88133.518 -5.040 -5.741 1.00 0.00 H
 ATOM 1298 N PRO A 89137.145 -0.428 0.343 1.00 0.00 N
 ATOM 1299 CA PRO A 89136.992 -0.500 1.800 1.00 0.00 C
 ATOM 1300 C PRO A 89137.064 -1.933 2.319 1.00 0.00 C
 ATOM 1301 O PRO A 89136.429 -2.834 1.772 1.00 0.00 O
 ATOM 1302 CB PRO A 89135.600 0.087 2.047 1.00 0.00 C
 ATOM 1303 CG PRO A 89135.338 0.956 0.866 1.00 0.00 C
 ATOM 1304 CD PRO A 89136.029 0.296 -0.293 1.00 0.00 C
 ATOM 1305 HA PRO A 89137.735 0.101 2.305 1.00 0.00 H
 ATOM 1306 1HB PRO A 89134.878 -0.712 2.118 1.00 0.00 H
 ATOM 1307 2HB PRO A 89135.605 0.658 2.963 1.00 0.00 H

ATOM	1308	IHG	PRO A	89134.275	1.018	0.684	1.00	0.00	H
ATOM	1309	2HG	PRO A	89135.748	1.940	1.037	1.00	0.00	H
ATOM	1310	IHD	PRO A	89135.359	-0.389	-0.793	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.397	1.039	-0.986	1.00	0.00	H
ATOM	1312	N	ASPA	90137.840	-2.134	3.379	1.00	0.00	N
ATOM	1313	CA	ASPA	90137.993	-3.457	3.973	1.00	0.00	C
ATOM	1314	C	ASPA	90137.169	-3.577	5.252	1.00	0.00	C
ATOM	1315	O	ASPA	90137.450	-2.910	6.248	1.00	0.00	O
ATOM	1316	CB	ASPA	90139.466	-3.738	4.273	1.00	0.00	C
ATOM	1317	CG	ASPA	90139.802	-5.214	4.188	1.00	0.00	C
ATOM	1318	OD1	ASPA	90139.035	-5.962	3.546	1.00	0.00	O
ATOM	1319	OD2	ASPA	90140.832	-5.623	4.765	1.00	0.00	O
ATOM	1320	H	ASPA	90138.319	-1.376	3.772	1.00	0.00	H
ATOM	1321	HA	ASPA	90137.634	-4.185	3.260	1.00	0.00	H
ATOM	1322	1HB	ASPA	90140.079	-3.207	3.561	1.00	0.00	H
ATOM	1323	2HB	ASPA	90139.697	-3.391	5.270	1.00	0.00	H
ATOM	1324	N	SERA	91136.152	-4.431	5.217	1.00	0.00	N
ATOM	1325	CA	SERA	91135.287	-4.638	6.373	1.00	0.00	C
ATOM	1326	C	SERA	91135.697	-5.889	7.143	1.00	0.00	C
ATOM	1327	O	SERA	91134.862	-6.551	7.760	1.00	0.00	O
ATOM	1328	CB	SERA	91133.828	-4.756	5.929	1.00	0.00	C
ATOM	1329	OG	SERA	91132.948	-4.280	6.933	1.00	0.00	O
ATOM	1330	H	SERA	91135.978	-4.935	4.394	1.00	0.00	H
ATOM	1331	HA	SERA	91135.389	-3.781	7.021	1.00	0.00	H
ATOM	1332	1HB	SERA	91133.678	-4.174	5.032	1.00	0.00	H
ATOM	1333	2HB	SERA	91133.598	-5.792	5.729	1.00	0.00	H
ATOM	1334	HG	SERA	91132.884	-3.323	6.875	1.00	0.00	H
ATOM	1335	N	ARGA	92136.986	-6.208	7.102	1.00	0.00	N
ATOM	1336	CA	ARGA	92137.506	-7.381	7.796	1.00	0.00	C
ATOM	1337	C	ARGA	92137.392	-7.216	9.308	1.00	0.00	C
ATOM	1338	O	ARGA	92137.237	-8.194	10.039	1.00	0.00	O

ATOM	1339	CB	ARG	A	92138.965	-7.625	7.407	1.00	0.00	C
ATOM	1340	CG	ARG	A	92139.127	-8.507	6.179	1.00	0.00	C
ATOM	1341	CD	ARG	A	92139.297	-9.967	6.561	1.00	0.00	C
ATOM	1342	NE	ARG	A	92138.019	-10.606	6.867	1.00	0.00	N
ATOM	1343	CZ	ARG	A	92137.901	-11.865	7.283	1.00	0.00	C
ATOM	1344	NH1	ARG	A	92138.978	-12.623	7.443	1.00	0.00	N
ATOM	1345	NH2	ARG	A	92136.700	-12.367	7.540	1.00	0.00	N
ATOM	1346	H	ARG	A	92137.603	-5.642	6.593	1.00	0.00	H
ATOM	1347	HA	ARG	A	92136.915	-8.232	7.494	1.00	0.00	H
ATOM	1348	1HB	ARG	A	92139.435	-6.674	7.205	1.00	0.00	H
ATOM	1349	2HB	ARG	A	92139.472	-8.100	8.234	1.00	0.00	H
ATOM	1350	1HG	ARG	A	92138.250	-8.408	5.558	1.00	0.00	H
ATOM	1351	2HG	ARG	A	92139.999	-8.183	5.629	1.00	0.00	H
ATOM	1352	1HD	ARG	A	92139.761	-10.490	5.738	1.00	0.00	H
ATOM	1353	2HD	ARG	A	92139.937	-10.027	7.430	1.00	0.00	H
ATOM	1354	HE	ARG	A	92137.207	-10.069	6.758	1.00	0.00	H
ATOM	1355	1HH1	ARG	A	92139.885	-12.251	7.251	1.00	0.00	H
ATOM	1356	2HH1	ARG	A	92138.881	-13.568	7.756	1.00	0.00	H
ATOM	1357	1HH2	ARG	A	92135.885	-11.800	7.422	1.00	0.00	H
ATOM	1358	2HH2	ARG	A	92136.610	-13.314	7.852	1.00	0.00	H
ATOM	1359	N	PHE	A	93137.469	-5.972	9.771	1.00	0.00	N
ATOM	1360	CA	PHE	A	93137.374	-5.680	11.197	1.00	0.00	C
ATOM	1361	C	PHE	A	93136.233	-4.710	11.482	1.00	0.00	C
ATOM	1362	O	PHE	A	93136.297	-3.923	12.426	1.00	0.00	O
ATOM	1363	CB	PHE	A	93138.694	-5.097	11.708	1.00	0.00	C
ATOM	1364	CG	PHE	A	93139.869	-6.012	11.515	1.00	0.00	C
ATOM	1365	CD1	PHE	A	93140.315	-6.330	10.242	1.00	0.00	C
ATOM	1366	CD2	PHE	A	93140.529	-6.553	12.607	1.00	0.00	C
ATOM	1367	CE1	PHE	A	93141.396	-7.172	10.062	1.00	0.00	C
ATOM	1368	CE2	PHE	A	93141.611	-7.395	12.432	1.00	0.00	C
ATOM	1369	CZ	PHE	A	93142.044	-7.705	11.158	1.00	0.00	C

ATOM 1370 H PHE A 93137.593 -5.233 9.140 1.00 0.00 H
 ATOM 1371 HA PHE A 93137.179 -6.609 11.713 1.00 0.00 H
 ATOM 1372 1HB PHE A 93138.900 -4.177 11.182 1.00 0.00 H
 ATOM 1373 2HB PHE A 93138.602 -4.889 12.764 1.00 0.00 H
 ATOM 1374 HD1 PHE A 93139.808 -5.914 9.384 1.00 0.00 H
 ATOM 1375 HD2 PHE A 93140.191 -6.311 13.603 1.00 0.00 H
 ATOM 1376 HE1 PHE A 93141.732 -7.413 9.064 1.00 0.00 H
 ATOM 1377 HE2 PHE A 93142.116 -7.810 13.292 1.00 0.00 H
 ATOM 1378 HZ PHE A 93142.890 -8.363 11.020 1.00 0.00 H
 ATOM 1379 N ALA A 94135.189 -4.773 10.663 1.00 0.00 N
 ATOM 1380 CA ALA A 94134.033 -3.900 10.832 1.00 0.00 C
 ATOM 1381 C ALA A 94133.305 -4.199 12.137 1.00 0.00 C
 ATOM 1382 O ALA A 94133.012 -5.354 12.445 1.00 0.00 O
 ATOM 1383 CB ALA A 94133.085 -4.045 9.650 1.00 0.00 C
 ATOM 1384 H ALA A 94135.193 -5.422 9.929 1.00 0.00 H
 ATOM 1385 HA ALA A 94134.388 -2.879 10.856 1.00 0.00 H
 ATOM 1386 1HB ALA A 94133.208 -5.023 9.210 1.00 0.00 H
 ATOM 1387 2HB ALA A 94133.309 -3.287 8.914 1.00 0.00 H
 ATOM 1388 3HB ALA A 94132.067 -3.928 9.990 1.00 0.00 H
 ATOM 1389 N SER A 95133.013 -3.150 12.901 1.00 0.00 N
 ATOM 1390 CA SER A 95132.317 -3.302 14.173 1.00 0.00 C
 ATOM 1391 C SER A 95130.916 -3.866 13.962 1.00 0.00 C
 ATOM 1392 O SER A 95130.374 -3.811 12.859 1.00 0.00 O
 ATOM 1393 CB SER A 95132.236 -1.957 14.897 1.00 0.00 C
 ATOM 1394 OG SER A 95132.416 -2.118 16.294 1.00 0.00 O
 ATOM 1395 H SER A 95133.272 -2.255 12.601 1.00 0.00 H
 ATOM 1396 HA SER A 95132.883 -3.993 14.780 1.00 0.00 H
 ATOM 1397 1HB SER A 95133.008 -1.301 14.522 1.00 0.00 H
 ATOM 1398 2HB SER A 95131.268 -1.513 14.719 1.00 0.00 H
 ATOM 1399 HG SER A 95133.342 -2.288 16.481 1.00 0.00 H
 ATOM 1400 N LEU A 96130.335 -4.410 15.026 1.00 0.00 N

ATOM 1401 CA LEU A 96128.997 -4.986 14.956 1.00 0.00 C
 ATOM 1402 C LEU A 96128.036 -4.263 15.895 1.00 0.00 C
 ATOM 1403 O LEU A 96126.868 -4.055 15.564 1.00 0.00 O
 ATOM 1404 CB LEU A 96129.042 -6.476 15.303 1.00 0.00 C
 ATOM 1405 CG LEU A 96128.119 -7.363 14.466 1.00 0.00 C
 ATOM 1406 CD1 LEU A 96128.828 -7.831 13.204 1.00 0.00 C
 ATOM 1407 CD2 LEU A 96127.642 -8.555 15.284 1.00 0.00 C
 ATOM 1408 H LEU A 96130.818 -4.426 15.879 1.00 0.00 H
 ATOM 1409 HA LEU A 96128.642 -4.872 13.944 1.00 0.00 H
 ATOM 1410 1HB LEU A 96130.057 -6.823 15.170 1.00 0.00 H
 ATOM 1411 2HB LEU A 96128.772 -6.592 16.341 1.00 0.00 H
 ATOM 1412 HG LEU A 96127.252 -6.792 14.168 1.00 0.00 H
 ATOM 1413 1HD1 LEU A 96129.233 -8.820 13.364 1.00 0.00 H
 ATOM 1414 2HD1 LEU A 96129.629 -7.148 12.967 1.00 0.00 H
 ATOM 1415 3HD1 LEU A 96128.124 -7.860 12.385 1.00 0.00 H
 ATOM 1416 1HD2 LEU A 96127.529 -9.413 14.639 1.00 0.00 H
 ATOM 1417 2HD2 LEU A 96126.691 -8.319 15.740 1.00 0.00 H
 ATOM 1418 3HD2 LEU A 96128.365 -8.775 16.054 1.00 0.00 H
 ATOM 1419 N GLN A 97128.533 -3.884 17.066 1.00 0.00 N
 ATOM 1420 CA GLN A 97127.716 -3.187 18.053 1.00 0.00 C
 ATOM 1421 C GLN A 97127.507 -1.726 17.658 1.00 0.00 C
 ATOM 1422 O GLN A 97126.376 -1.290 17.445 1.00 0.00 O
 ATOM 1423 CB GLN A 97128.369 -3.269 19.436 1.00 0.00 C
 ATOM 1424 CG GLN A 97127.712 -4.284 20.358 1.00 0.00 C
 ATOM 1425 CD GLN A 97128.057 -5.715 19.990 1.00 0.00 C
 ATOM 1426 OE1 GLN A 97129.195 -6.154 20.161 1.00 0.00 O
 ATOM 1427 NE2 GLN A 97127.075 -6.449 19.483 1.00 0.00 N
 ATOM 1428 H GLN A 97129.470 -4.080 17.272 1.00 0.00 H
 ATOM 1429 HA GLN A 97126.755 -3.677 18.090 1.00 0.00 H
 ATOM 1430 1HB GLN A 97129.406 -3.543 19.315 1.00 0.00 H
 ATOM 1431 2HB GLN A 97128.313 -2.299 19.908 1.00 0.00 H

ATOM 1432 1HG GLN A 97128.042 -4.100 21.370 1.00 0.00 H
 ATOM 1433 2HG GLN A 97126.641 -4.162 20.301 1.00 0.00 H
 ATOM 1434 1HE2 GLN A 97126.193 -6.033 19.375 1.00 0.00 H
 ATOM 1435 2HE2 GLN A 97127.270 -7.377 19.237 1.00 0.00 H
 ATOM 1436 N PRO A 98128.598 -0.947 17.556 1.00 0.00 N
 ATOM 1437 CA PRO A 98128.523 0.469 17.186 1.00 0.00 C
 ATOM 1438 C PRO A 98128.237 0.667 15.701 1.00 0.00 C
 ATOM 1439 O PRO A 98128.153 -0.297 14.942 1.00 0.00 O
 ATOM 1440 CB PRO A 98129.913 0.996 17.538 1.00 0.00 C
 ATOM 1441 CG PRO A 98130.809 -0.185 17.397 1.00 0.00 C
 ATOM 1442 CD PRO A 98129.988 -1.383 17.795 1.00 0.00 C
 ATOM 1443 HA PRO A 98127.778 0.992 17.768 1.00 0.00 H
 ATOM 1444 1HB PRO A 98130.186 1.786 16.853 1.00 0.00 H
 ATOM 1445 2HB PRO A 98129.914 1.372 18.551 1.00 0.00 H
 ATOM 1446 1HG PRO A 98131.134 -0.278 16.370 1.00 0.00 H
 ATOM 1447 2HG PRO A 98131.661 -0.081 18.052 1.00 0.00 H
 ATOM 1448 1HD PRO A 98130.236 -2.233 17.175 1.00 0.00 H
 ATOM 1449 2HD PRO A 98130.144 -1.617 18.837 1.00 0.00 H
 ATOM 1450 N SER A 99128.090 1.923 15.295 1.00 0.00 N
 ATOM 1451 CA SER A 99127.813 2.249 13.901 1.00 0.00 C
 ATOM 1452 C SER A 99126.511 1.603 13.438 1.00 0.00 C
 ATOM 1453 O SER A 99125.885 0.845 14.180 1.00 0.00 O
 ATOM 1454 CB SER A 99128.968 1.789 13.009 1.00 0.00 C
 ATOM 1455 OG SER A 99129.924 2.821 12.839 1.00 0.00 O
 ATOM 1456 H SER A 99128.168 2.649 15.948 1.00 0.00 H
 ATOM 1457 HA SER A 99127.716 3.321 13.824 1.00 0.00 H
 ATOM 1458 1HB SER A 99129.453 0.937 13.463 1.00 0.00 H
 ATOM 1459 2HB SER A 99128.582 1.509 12.039 1.00 0.00 H
 ATOM 1460 HG SER A 99129.542 3.530 12.318 1.00 0.00 H
 ATOM 1461 N GLY A 100126.108 1.908 12.209 1.00 0.00 N
 ATOM 1462 CA GLY A 100124.883 1.349 11.670 1.00 0.00 C

ATOM	1463	C	GLY A	100124.519	1.941	10.322	1.00	0.00	C
ATOM	1464	O	GLY A	100123.482	2.592	10.188	1.00	0.00	O
ATOM	1465	H	GLY A	100126.648	2.518	11.664	1.00	0.00	H
ATOM	1466	1HA	GLY A	100125.005	0.282	11.561	1.00	0.00	H
ATOM	1467	2HA	GLY A	100124.078	1.540	12.364	1.00	0.00	H
ATOM	1468	N	PRO A	101125.359	1.731	9.293	1.00	0.00	N
ATOM	1469	CA	PRO A	101125.107	2.256	7.947	1.00	0.00	C
ATOM	1470	C	PRO A	101123.718	1.890	7.433	1.00	0.00	C
ATOM	1471	O	PRO A	101122.980	2.747	6.947	1.00	0.00	O
ATOM	1472	CB	PRO A	101126.186	1.585	7.096	1.00	0.00	C
ATOM	1473	CG	PRO A	101127.285	1.275	8.051	1.00	0.00	C
ATOM	1474	CD	PRO A	101126.618	0.967	9.363	1.00	0.00	C
ATOM	1475	HA	PRO A	101125.231	3.328	7.912	1.00	0.00	H
ATOM	1476	1HB	PRO A	101125.786	0.687	6.645	1.00	0.00	H
ATOM	1477	2HB	PRO A	101126.515	2.265	6.324	1.00	0.00	H
ATOM	1478	1HG	PRO A	101127.842	0.418	7.703	1.00	0.00	H
ATOM	1479	2HG	PRO A	101127.935	2.131	8.153	1.00	0.00	H
ATOM	1480	1HD	PRO A	101126.423	-0.092	9.447	1.00	0.00	H
ATOM	1481	2HD	PRO A	101127.230	1.306	10.185	1.00	0.00	H
ATOM	1482	N	SER A	102123.369	0.613	7.545	1.00	0.00	N
ATOM	1483	CA	SER A	102122.069	0.133	7.093	1.00	0.00	C
ATOM	1484	C	SER A	102121.100	-0.001	8.263	1.00	0.00	C
ATOM	1485	O	SER A	102121.516	-0.103	9.417	1.00	0.00	O
ATOM	1486	CB	SER A	102122.218	-1.213	6.382	1.00	0.00	C
ATOM	1487	OG	SER A	102123.120	-1.118	5.293	1.00	0.00	O
ATOM	1488	H	SER A	102124.001	-0.023	7.942	1.00	0.00	H
ATOM	1489	HA	SER A	102121.674	0.857	6.395	1.00	0.00	H
ATOM	1490	1HB	SER A	102122.592	-1.947	7.079	1.00	0.00	H
ATOM	1491	2HB	SER A	102121.255	-1.529	6.008	1.00	0.00	H
ATOM	1492	HG	SER A	102124.020	-1.072	5.626	1.00	0.00	H
ATOM	1493	N	SER A	103119.807	-0.001	7.957	1.00	0.00	N

ATOM 1494 CA SER A 103118.779 -0.124 8.984 1.00 0.00 C
 ATOM 1495 C SER A 103117.615 -0.978 8.491 1.00 0.00 C
 ATOM 1496 O SER A 103117.578 -1.380 7.327 1.00 0.00 O
 ATOM 1497 CB SER A 103118.273 1.260 9.396 1.00 0.00 C
 ATOM 1498 OG SER A 103119.008 1.766 10.496 1.00 0.00 O
 ATOM 1499 H SER A 103119.538 0.082 7.018 1.00 0.00 H
 ATOM 1500 HA SER A 103119.224 -0.605 9.842 1.00 0.00 H
 ATOM 1501 1HB SER A 103118.378 1.941 8.566 1.00 0.00 H
 ATOM 1502 2HB SER A 103117.231 1.191 9.675 1.00 0.00 H
 ATOM 1503 HG SER A 103118.404 2.011 11.200 1.00 0.00 H
 ATOM 1504 N GLY A 104116.668 -1.250 9.382 1.00 0.00 N
 ATOM 1505 CA GLY A 104115.517 -2.054 9.017 1.00 0.00 C
 ATOM 1506 C GLY A 104115.849 -3.530 8.912 1.00 0.00 C
 ATOM 1507 O GLY A 104116.578 -3.908 7.971 1.00 0.00 O
 ATOM 1508 OXT GLY A 104115.381 -4.306 9.770 1.00 0.00 O
 ATOM 1509 H GLY A 104116.751 -0.902 10.294 1.00 0.00 H
 ATOM 1510 1HA GLY A 104114.748 -1.923 9.764 1.00 0.00 H
 ATOM 1511 2HA GLY A 104115.140 -1.712 8.064 1.00 0.00 H
 TER 1512 GLY A 104
 ENDMDL

Three-Dimensional Structure Coordinate Table 11

ATOM 1 N GLY A 1115.866 3.091 -14.965 1.00 0.00 N
 ATOM 2 CA GLY A 1115.463 4.481 -15.313 1.00 0.00 C
 ATOM 3 C GLY A 1114.748 5.178 -14.173 1.00 0.00 C
 ATOM 4 O GLY A 1115.178 6.239 -13.718 1.00 0.00 O
 ATOM 5 1H GLY A 1115.734 2.465 -15.785 1.00 0.00 H
 ATOM 6 2H GLY A 1115.288 2.737 -14.177 1.00 0.00 H
 ATOM 7 3H GLY A 1116.867 3.069 -14.684 1.00 0.00 H
 ATOM 8 1HA GLY A 1116.347 5.047 -15.568 1.00 0.00 H
 ATOM 9 2HA GLY A 1114.807 4.450 -16.170 1.00 0.00 H

ATOM10	N	SER A	2113.654	4.584	-13.710	1.00	0.00	N
ATOM11	CA	SER A	2112.877	5.154	-12.617	1.00	0.00	C
ATOM12	C	SER A	2113.073	4.352	-11.334	1.00	0.00	C
ATOM13	O	SER A	2112.499	3.275	-11.170	1.00	0.00	O
ATOM14	CB	SER A	2111.393	5.196	-12.984	1.00	0.00	C
ATOM15	OG	SER A	2110.991	3.994	-13.621	1.00	0.00	O
ATOM16	H	SER A	2113.361	3.739	-14.114	1.00	0.00	H
ATOM17	HA	SER A	2113.225	6.163	-12.454	1.00	0.00	H
ATOM18	1HB	SER A	2110.805	5.327	-12.088	1.00	0.00	H
ATOM19	2HB	SER A	2111.213	6.021	-13.656	1.00	0.00	H
ATOM20	HG	SER A	2110.163	4.140	-14.085	1.00	0.00	H
ATOM21	N	SER A	3113.885	4.885	-10.428	1.00	0.00	N
ATOM22	CA	SER A	3114.158	4.219	-9.160	1.00	0.00	C
ATOM23	C	SER A	3114.271	5.234	-8.026	1.00	0.00	C
ATOM24	O	SER A	3115.013	5.026	-7.066	1.00	0.00	O
ATOM25	CB	SER A	3115.444	3.398	-9.257	1.00	0.00	C
ATOM26	OG	SER A	3116.585	4.238	-9.267	1.00	0.00	O
ATOM27	H	SER A	3114.313	5.746	-10.617	1.00	0.00	H
ATOM28	HA	SER A	3113.332	3.555	-8.951	1.00	0.00	H
ATOM29	1HB	SER A	3115.510	2.733	-8.407	1.00	0.00	H
ATOM30	2HB	SER A	3115.431	2.817	-10.168	1.00	0.00	H
ATOM31	HG	SER A	3117.076	4.121	-8.450	1.00	0.00	H
ATOM32	N	GLY A	4113.532	6.331	-8.144	1.00	0.00	N
ATOM33	CA	GLY A	4113.564	7.361	-7.124	1.00	0.00	C
ATOM34	C	GLY A	4114.925	8.018	-7.006	1.00	0.00	C
ATOM35	O	GLY A	4115.618	8.209	-8.005	1.00	0.00	O
ATOM36	H	GLY A	4112.959	6.442	-8.932	1.00	0.00	H
ATOM37	1HA	GLY A	4112.831	8.116	-7.366	1.00	0.00	H
ATOM38	2HA	GLY A	4113.308	6.918	-6.172	1.00	0.00	H
ATOM39	N	SER A	5115.308	8.367	-5.781	1.00	0.00	N
ATOM40	CA	SER A	5116.595	9.007	-5.536	1.00	0.00	C

ATOM41 C SER A 5117.744 8.053 -5.842 1.00 0.00 C
 ATOM42 O SER A 5117.532 6.947 -6.339 1.00 0.00 O
 ATOM43 CB SER A 5116.683 9.483 -4.086 1.00 0.00 C
 ATOM44 OG SER A 5116.895 8.395 -3.204 1.00 0.00 O
 ATOM45 H SER A 5114.711 8.189 -5.025 1.00 0.00 H
 ATOM46 HA SER A 5116.669 9.863 -6.192 1.00 0.00 H
 ATOM47 1HB SER A 5117.505 10.176 -3.985 1.00 0.00 H
 ATOM48 2HB SER A 5115.761 9.977 -3.814 1.00 0.00 H
 ATOM49 HG SER A 5117.254 8.719 -2.374 1.00 0.00 H
 ATOM50 N SER A 6118.964 8.488 -5.541 1.00 0.00 N
 ATOM51 CA SER A 6120.148 7.672 -5.783 1.00 0.00 C
 ATOM52 C SER A 6121.050 7.644 -4.553 1.00 0.00 C
 ATOM53 O SER A 6120.819 8.368 -3.585 1.00 0.00 O
 ATOM54 CB SER A 6120.925 8.209 -6.987 1.00 0.00 C
 ATOM55 OG SER A 6120.330 7.794 -8.204 1.00 0.00 O
 ATOM56 H SER A 6119.070 9.379 -5.147 1.00 0.00 H
 ATOM57 HA SER A 6119.819 6.667 -5.998 1.00 0.00 H
 ATOM58 1HB SER A 6120.934 9.288 -6.955 1.00 0.00 H
 ATOM59 2HB SER A 6121.940 7.839 -6.952 1.00 0.00 H
 ATOM60 HG SER A 6119.960 8.556 -8.656 1.00 0.00 H
 ATOM61 N GLY A 7122.078 6.802 -4.599 1.00 0.00 N
 ATOM62 CA GLY A 7122.998 6.694 -3.483 1.00 0.00 C
 ATOM63 C GLY A 7124.358 7.292 -3.792 1.00 0.00 C
 ATOM64 O GLY A 7125.374 6.600 -3.734 1.00 0.00 O
 ATOM65 H GLY A 7122.211 6.250 -5.398 1.00 0.00 H
 ATOM66 1HA GLY A 7122.577 7.208 -2.631 1.00 0.00 H
 ATOM67 2HA GLY A 7123.125 5.651 -3.234 1.00 0.00 H
 ATOM68 N LEU A 8124.375 8.579 -4.121 1.00 0.00 N
 ATOM69 CA LEU A 8125.618 9.269 -4.441 1.00 0.00 C
 ATOM70 C LEU A 8126.203 9.939 -3.201 1.00 0.00 C
 ATOM71 O LEU A 8125.836 11.063 -2.860 1.00 0.00 O

ATOM72 CB LEU A 8125.382 10.312 -5.534 1.00 0.00 C
 ATOM73 CG LEU A 8125.496 9.786 -6.966 1.00 0.00 C
 ATOM74 CD1 LEU A 8124.571 10.560 -7.895 1.00 0.00 C
 ATOM75 CD2 LEU A 8126.936 9.874 -7.451 1.00 0.00 C
 ATOM76 H LEU A 8123.530 9.077 -4.149 1.00 0.00 H
 ATOM77 HA LEU A 8126.321 8.535 -4.804 1.00 0.00 H
 ATOM78 1HB LEU A 8124.390 10.723 -5.402 1.00 0.00 H
 ATOM79 2HB LEU A 8126.102 11.106 -5.409 1.00 0.00 H
 ATOM80 HG LEU A 8125.198 8.749 -6.987 1.00 0.00 H
 ATOM81 1HD1 LEU A 8124.613 10.130 -8.884 1.00 0.00 H
 ATOM82 2HD1 LEU A 8124.884 11.592 -7.936 1.00 0.00 H
 ATOM83 3HD1 LEU A 8123.559 10.504 -7.521 1.00 0.00 H
 ATOM84 1HD2 LEU A 8127.427 10.708 -6.971 1.00 0.00 H
 ATOM85 2HD2 LEU A 8126.946 10.018 -8.521 1.00 0.00 H
 ATOM86 3HD2 LEU A 8127.454 8.960 -7.205 1.00 0.00 H
 ATOM87 N ALAA 9127.114 9.241 -2.531 1.00 0.00 N
 ATOM88 CA ALAA 9127.749 9.768 -1.330 1.00 0.00 C
 ATOM89 C ALAA 9129.268 9.670 -1.424 1.00 0.00 C
 ATOM90 O ALAA 9129.869 8.705 -0.951 1.00 0.00 O
 ATOM91 CB ALAA 9127.246 9.027 -0.100 1.00 0.00 C
 ATOM92 H ALAA 9127.366 8.351 -2.854 1.00 0.00 H
 ATOM93 HA ALAA 9127.471 10.807 -1.234 1.00 0.00 H
 ATOM94 1HB ALAA 9127.736 8.068 -0.032 1.00 0.00 H
 ATOM95 2HB ALAA 9126.179 8.883 -0.179 1.00 0.00 H
 ATOM96 3HB ALAA 9127.466 9.607 0.785 1.00 0.00 H
 ATOM97 N META 10129.884 10.676 -2.036 1.00 0.00 N
 ATOM98 CA META 10131.333 10.704 -2.192 1.00 0.00 C
 ATOM99 C META 10131.803 12.075 -2.673 1.00 0.00 C
 ATOM 100 O META 10132.290 12.217 -3.796 1.00 0.00 O
 ATOM 101 CB META 10131.781 9.621 -3.177 1.00 0.00 C
 ATOM 102 CG META 10131.011 9.633 -4.487 1.00 0.00 C

ATOM	103	SD	MET A	10132.039	9.194	-5.902	1.00	0.00	S
ATOM	104	CE	MET A	10131.756	10.599	-6.975	1.00	0.00	C
ATOM	105	H	MET A	10129.350	11.418	-2.392	1.00	0.00	H
ATOM	106	HA	MET A	10131.774	10.503	-1.227	1.00	0.00	H
ATOM	107	1HB	MET A	10132.829	9.764	-3.399	1.00	0.00	H
ATOM	108	2HB	MET A	10131.649	8.654	-2.715	1.00	0.00	H
ATOM	109	1HG	MET A	10130.198	8.925	-4.418	1.00	0.00	H
ATOM	110	2HG	MET A	10130.610	10.624	-4.645	1.00	0.00	H
ATOM	111	1HE	MET A	10132.698	10.931	-7.388	1.00	0.00	H
ATOM	112	2HE	MET A	10131.308	11.401	-6.408	1.00	0.00	H
ATOM	113	3HE	MET A	10131.094	10.311	-7.778	1.00	0.00	H
ATOM	114	N	PRO A	11131.663	13.108	-1.824	1.00	0.00	N
ATOM	115	CA	PRO A	11132.074	14.473	-2.167	1.00	0.00	C
ATOM	116	C	PRO A	11133.551	14.563	-2.551	1.00	0.00	C
ATOM	117	O	PRO A	11133.898	15.181	-3.558	1.00	0.00	O
ATOM	118	CB	PRO A	11131.805	15.271	-0.886	1.00	0.00	C
ATOM	119	CG	PRO A	11130.807	14.463	-0.129	1.00	0.00	C
ATOM	120	CD	PRO A	11131.093	13.028	-0.468	1.00	0.00	C
ATOM	121	HA	PRO A	11131.475	14.872	-2.972	1.00	0.00	H
ATOM	122	1HB	PRO A	11132.723	15.387	-0.331	1.00	0.00	H
ATOM	123	2HB	PRO A	11131.410	16.243	-1.142	1.00	0.00	H
ATOM	124	1HG	PRO A	11130.929	14.629	0.931	1.00	0.00	H
ATOM	125	2HG	PRO A	11129.808	14.729	-0.439	1.00	0.00	H
ATOM	126	1HD	PRO A	11131.806	12.609	0.227	1.00	0.00	H
ATOM	127	2HD	PRO A	11130.180	12.450	-0.468	1.00	0.00	H
ATOM	128	N	PRO A	12134.450	13.949	-1.756	1.00	0.00	N
ATOM	129	CA	PRO A	12135.886	13.974	-2.032	1.00	0.00	C
ATOM	130	C	PRO A	12136.292	12.960	-3.095	1.00	0.00	C
ATOM	131	O	PRO A	12137.238	13.182	-3.852	1.00	0.00	O
ATOM	132	CB	PRO A	12136.500	13.610	-0.682	1.00	0.00	C
ATOM	133	CG	PRO A	12135.490	12.722	-0.040	1.00	0.00	C

ATOM	134	CD	PRO A	12134.140	13.185	-0.528	1.00	0.00	C
ATOM	135	HA	PRO A	12136.216	14.959	-2.328	1.00	0.00	H
ATOM	136	1HB	PRO A	12137.438	13.099	-0.837	1.00	0.00	H
ATOM	137	2HB	PRO A	12136.662	14.507	-0.103	1.00	0.00	H
ATOM	138	1HG	PRO A	12135.663	11.698	-0.336	1.00	0.00	H
ATOM	139	2HG	PRO A	12135.551	12.816	1.034	1.00	0.00	H
ATOM	140	1HD	PRO A	12133.514	12.336	-0.753	1.00	0.00	H
ATOM	141	2HD	PRO A	12133.670	13.816	0.211	1.00	0.00	H
ATOM	142	N	GLY A	13135.571	11.845	-3.148	1.00	0.00	N
ATOM	143	CA	GLY A	13135.870	10.813	-4.124	1.00	0.00	C
ATOM	144	C	GLY A	13135.828	9.420	-3.526	1.00	0.00	C
ATOM	145	O	GLY A	13135.130	9.182	-2.540	1.00	0.00	O
ATOM	146	H	GLY A	13134.829	11.722	-2.520	1.00	0.00	H
ATOM	147	1HA	GLY A	13135.150	10.871	-4.926	1.00	0.00	H
ATOM	148	2HA	GLY A	13136.857	10.990	-4.526	1.00	0.00	H
ATOM	149	N	ASN A	14136.576	8.499	-4.124	1.00	0.00	N
ATOM	150	CA	ASN A	14136.621	7.122	-3.645	1.00	0.00	C
ATOM	151	C	ASN A	14135.237	6.483	-3.698	1.00	0.00	C
ATOM	152	O	ASN A	14134.268	7.110	-4.126	1.00	0.00	O
ATOM	153	CB	ASN A	14137.162	7.075	-2.215	1.00	0.00	C
ATOM	154	CG	ASN A	14138.589	7.579	-2.120	1.00	0.00	C
ATOM	155	OD1	ASN A	14139.533	6.793	-2.045	1.00	0.00	O
ATOM	156	ND2	ASN A	14138.752	8.897	-2.121	1.00	0.00	N
ATOM	157	H	ASN A	14137.110	8.751	-4.906	1.00	0.00	H
ATOM	158	HA	ASN A	14137.286	6.568	-4.290	1.00	0.00	H
ATOM	159	1HB	ASN A	14136.541	7.689	-1.581	1.00	0.00	H
ATOM	160	2HB	ASN A	14137.135	6.055	-1.860	1.00	0.00	H
ATOM	161	1HD2	ASN A	14137.954	9.462	-2.183	1.00	0.00	H
ATOM	162	2HD2	ASN A	14139.665	9.250	-2.062	1.00	0.00	H
ATOM	163	N	SER A	15135.153	5.230	-3.261	1.00	0.00	N
ATOM	164	CA	SER A	15133.889	4.505	-3.259	1.00	0.00	C

ATOM	165	C	SER A	15133.091	4.806	-1.995	1.00	0.00	C
ATOM	166	O	SER A	15131.921	5.185	-2.062	1.00	0.00	O
ATOM	167	CB	SER A	15134.139	3.000	-3.372	1.00	0.00	C
ATOM	168	OG	SER A	15135.400	2.651	-2.828	1.00	0.00	O
ATOM	169	H	SER A	15135.961	4.783	-2.933	1.00	0.00	H
ATOM	170	HA	SER A	15133.318	4.831	-4.116	1.00	0.00	H
ATOM	171	1HB	SER A	15133.369	2.468	-2.834	1.00	0.00	H
ATOM	172	2HB	SER A	15134.117	2.710	-4.413	1.00	0.00	H
ATOM	173	HG	SER A	15135.437	1.701	-2.690	1.00	0.00	H
ATOM	174	N	HIS A	16133.731	4.634	-0.843	1.00	0.00	N
ATOM	175	CA	HIS A	16133.082	4.888	0.438	1.00	0.00	C
ATOM	176	C	HIS A	16133.911	5.845	1.287	1.00	0.00	C
ATOM	177	O	HIS A	16133.495	6.971	1.559	1.00	0.00	O
ATOM	178	CB	HIS A	16132.862	3.573	1.192	1.00	0.00	C
ATOM	179	CG	HIS A	16131.453	3.072	1.121	1.00	0.00	C
ATOM	180	ND1	HIS A	16130.429	3.599	1.878	1.00	0.00	N
ATOM	181	CD2	HIS A	16130.900	2.083	0.378	1.00	0.00	C
ATOM	182	CE1	HIS A	16129.306	2.957	1.605	1.00	0.00	C
ATOM	183	NE2	HIS A	16129.566	2.033	0.697	1.00	0.00	N
ATOM	184	H	HIS A	16134.662	4.329	-0.855	1.00	0.00	H
ATOM	185	HA	HIS A	16132.122	5.341	0.239	1.00	0.00	H
ATOM	186	1HB	HIS A	16133.506	2.814	0.771	1.00	0.00	H
ATOM	187	2HB	HIS A	16133.115	3.715	2.233	1.00	0.00	H
ATOM	188	HD1	HIS A	16130.511	4.334	2.522	1.00	0.00	H
ATOM	189	HD2	HIS A	16131.414	1.452	-0.334	1.00	0.00	H
ATOM	190	HE1	HIS A	16128.341	3.155	2.047	1.00	0.00	H
ATOM	191	HE2	HIS A	16128.929	1.360	0.379	1.00	0.00	H
ATOM	192	N	GLY A	17135.088	5.388	1.705	1.00	0.00	N
ATOM	193	CA	GLY A	17135.958	6.216	2.519	1.00	0.00	C
ATOM	194	C	GLY A	17137.253	5.516	2.881	1.00	0.00	C
ATOM	195	O	GLY A	17137.419	5.048	4.007	1.00	0.00	O

ATOM	196	H	GLY A	17135.368	4.483	1.458	1.00	0.00	H
ATOM	197	1HA	GLY A	17136.190	7.120	1.975	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.438	6.480	3.428	1.00	0.00	H
ATOM	199	N	LEU A	18138.173	5.445	1.924	1.00	0.00	N
ATOM	200	CA	LEU A	18139.459	4.796	2.147	1.00	0.00	C
ATOM	201	C	LEU A	18140.511	5.811	2.583	1.00	0.00	C
ATOM	202	O	LEU A	18141.018	6.584	1.770	1.00	0.00	O
ATOM	203	CB	LEU A	18139.920	4.080	0.876	1.00	0.00	C
ATOM	204	CG	LEU A	18138.891	3.132	0.258	1.00	0.00	C
ATOM	205	CD1	LEU A	18139.244	2.832	-1.190	1.00	0.00	C
ATOM	206	CD2	LEU A	18138.800	1.846	1.066	1.00	0.00	C
ATOM	207	H	LEU A	18137.981	5.839	1.046	1.00	0.00	H
ATOM	208	HA	LEU A	18139.330	4.068	2.934	1.00	0.00	H
ATOM	209	1HB	LEU A	18140.178	4.828	0.140	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.805	3.510	1.110	1.00	0.00	H
ATOM	211	HG	LEU A	18137.920	3.607	0.273	1.00	0.00	H
ATOM	212	1HD1	LEU A	18140.311	2.936	-1.330	1.00	0.00	H
ATOM	213	2HD1	LEU A	18138.727	3.523	-1.838	1.00	0.00	H
ATOM	214	3HD1	LEU A	18138.947	1.822	-1.430	1.00	0.00	H
ATOM	215	1HD2	LEU A	18138.009	1.934	1.795	1.00	0.00	H
ATOM	216	2HD2	LEU A	18139.738	1.672	1.571	1.00	0.00	H
ATOM	217	3HD2	LEU A	18138.589	1.020	0.403	1.00	0.00	H
ATOM	218	N	GLU A	19140.837	5.801	3.872	1.00	0.00	N
ATOM	219	CA	GLU A	19141.830	6.719	4.417	1.00	0.00	C
ATOM	220	C	GLU A	19142.803	5.984	5.335	1.00	0.00	C
ATOM	221	O	GLU A	19142.669	4.782	5.563	1.00	0.00	O
ATOM	222	CB	GLU A	19141.144	7.851	5.183	1.00	0.00	C
ATOM	223	CG	GLU A	19140.169	7.365	6.242	1.00	0.00	C
ATOM	224	CD	GLU A	19139.068	8.368	6.526	1.00	0.00	C
ATOM	225	OE1	GLU A	19139.317	9.321	7.292	1.00	0.00	O
ATOM	226	OE2	GLU A	19137.956	8.198	5.981	1.00	0.00	O

ATOM	227	H	GLU A	19140.399	5.160	4.471	1.00	0.00	H
ATOM	228	HA	GLU A	19142.383	7.138	3.590	1.00	0.00	H
ATOM	229	1HB	GLU A	19141.899	8.451	5.668	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.602	8.467	4.481	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.717	6.445	5.903	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.713	7.181	7.157	1.00	0.00	H
ATOM	233	N	VAL A	20143.782	6.716	5.858	1.00	0.00	N
ATOM	234	CA	VAL A	20144.777	6.134	6.751	1.00	0.00	C
ATOM	235	C	VAL A	20144.121	5.557	8.000	1.00	0.00	C
ATOM	236	O	VAL A	20143.192	6.145	8.554	1.00	0.00	O
ATOM	237	CB	VAL A	20145.832	7.173	7.171	1.00	0.00	C
ATOM	238	CG1	VAL A	20146.959	6.510	7.947	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.373	7.907	5.954	1.00	0.00	C
ATOM	240	H	VAL A	20143.837	7.669	5.638	1.00	0.00	H
ATOM	241	HA	VAL A	20145.277	5.338	6.219	1.00	0.00	H
ATOM	242	HB	VAL A	20145.357	7.897	7.819	1.00	0.00	H
ATOM	243	1HG1	VAL A	20147.274	5.615	7.430	1.00	0.00	H
ATOM	244	2HG1	VAL A	20146.611	6.249	8.936	1.00	0.00	H
ATOM	245	3HG1	VAL A	20147.792	7.192	8.026	1.00	0.00	H
ATOM	246	1HG2	VAL A	20146.325	7.258	5.091	1.00	0.00	H
ATOM	247	2HG2	VAL A	20147.398	8.194	6.132	1.00	0.00	H
ATOM	248	3HG2	VAL A	20145.778	8.790	5.772	1.00	0.00	H
ATOM	249	N	GLY A	21144.611	4.402	8.440	1.00	0.00	N
ATOM	250	CA	GLY A	21144.060	3.766	9.623	1.00	0.00	C
ATOM	251	C	GLY A	21143.052	2.684	9.282	1.00	0.00	C
ATOM	252	O	GLY A	21142.879	1.729	10.039	1.00	0.00	O
ATOM	253	H	GLY A	21145.351	3.979	7.959	1.00	0.00	H
ATOM	254	1HA	GLY A	21144.867	3.325	10.189	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.575	4.516	10.229	1.00	0.00	H
ATOM	256	N	SER A	22142.387	2.835	8.142	1.00	0.00	N
ATOM	257	CA	SER A	22141.391	1.865	7.703	1.00	0.00	C

ATOM	258	C	SER A	22142.020	0.815	6.794	1.00	0.00	C
ATOM	259	O	SER A	22143.073	1.045	6.198	1.00	0.00	O
ATOM	260	CB	SER A	22140.248	2.570	6.974	1.00	0.00	C
ATOM	261	OG	SER A	22139.563	3.461	7.837	1.00	0.00	O
ATOM	262	H	SER A	22142.570	3.619	7.582	1.00	0.00	H
ATOM	263	HA	SER A	22140.998	1.374	8.581	1.00	0.00	H
ATOM	264	1HB	SER A	22140.646	3.131	6.142	1.00	0.00	H
ATOM	265	2HB	SER A	22139.548	1.833	6.608	1.00	0.00	H
ATOM	266	HG	SER A	22138.635	3.220	7.876	1.00	0.00	H
ATOM	267	N	LEU A	23141.368	-0.338	6.690	1.00	0.00	N
ATOM	268	CA	LEU A	23141.863	-1.425	5.852	1.00	0.00	C
ATOM	269	C	LEU A	23141.319	-1.307	4.431	1.00	0.00	C
ATOM	270	O	LEU A	23140.227	-0.781	4.216	1.00	0.00	O
ATOM	271	CB	LEU A	23141.473	-2.777	6.451	1.00	0.00	C
ATOM	272	CG	LEU A	23142.132	-3.107	7.790	1.00	0.00	C
ATOM	273	CD1	LEU A	23141.223	-3.993	8.628	1.00	0.00	C
ATOM	274	CD2	LEU A	23143.478	-3.780	7.569	1.00	0.00	C
ATOM	275	H	LEU A	23140.533	-0.463	7.189	1.00	0.00	H
ATOM	276	HA	LEU A	23142.940	-1.353	5.819	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.400	-2.790	6.586	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.738	-3.549	5.744	1.00	0.00	H
ATOM	279	HG	LEU A	23142.300	-2.191	8.337	1.00	0.00	H
ATOM	280	1HD1	LEU A	23140.326	-3.448	8.885	1.00	0.00	H
ATOM	281	2HD1	LEU A	23141.738	-4.284	9.532	1.00	0.00	H
ATOM	282	3HD1	LEU A	23140.960	-4.875	8.064	1.00	0.00	H
ATOM	283	1HD2	LEU A	23144.046	-3.218	6.842	1.00	0.00	H
ATOM	284	2HD2	LEU A	23143.323	-4.785	7.206	1.00	0.00	H
ATOM	285	3HD2	LEU A	23144.021	-3.815	8.502	1.00	0.00	H
ATOM	286	N	ALAA	24142.088	-1.802	3.466	1.00	0.00	N
ATOM	287	CA	ALAA	24141.682	-1.753	2.067	1.00	0.00	C
ATOM	288	C	ALAA	24142.361	-2.855	1.260	1.00	0.00	C

ATOM	289	O	ALAA	24143.394	-3.389	1.666	1.00	0.00	O
ATOM	290	CB	ALAA	24142.002	-0.390	1.473	1.00	0.00	C
ATOM	291	H	ALAA	24142.947	-2.210	3.702	1.00	0.00	H
ATOM	292	HA	ALAA	24140.613	-1.896	2.025	1.00	0.00	H
ATOM	293	1HB	ALAA	24142.207	-0.495	0.418	1.00	0.00	H
ATOM	294	2HB	ALAA	24142.867	0.025	1.969	1.00	0.00	H
ATOM	295	3HB	ALAA	24141.158	0.270	1.612	1.00	0.00	H
ATOM	296	N	GLUA	25141.774	-3.190	0.116	1.00	0.00	N
ATOM	297	CA	GLUA	25142.323	-4.228	-0.749	1.00	0.00	C
ATOM	298	C	GLUA	25142.602	-3.682	-2.145	1.00	0.00	C
ATOM	299	O	GLUA	25141.870	-2.827	-2.646	1.00	0.00	O
ATOM	300	CB	GLUA	25141.356	-5.412	-0.836	1.00	0.00	C
ATOM	301	CG	GLUA	25142.003	-6.689	-1.347	1.00	0.00	C
ATOM	302	CD	GLUA	25141.070	-7.505	-2.220	1.00	0.00	C
ATOM	303	OE1	GLUA	25141.035	-8.742	-2.056	1.00	0.00	O
ATOM	304	OE2	GLUA	25140.376	-6.906	-3.068	1.00	0.00	O
ATOM	305	H	GLUA	25140.954	-2.728	-0.154	1.00	0.00	H
ATOM	306	HA	GLUA	25143.252	-4.566	-0.315	1.00	0.00	H
ATOM	307	1HB	GLUA	25140.955	-5.606	0.147	1.00	0.00	H
ATOM	308	2HB	GLUA	25140.547	-5.152	-1.501	1.00	0.00	H
ATOM	309	1HG	GLUA	25142.877	-6.428	-1.926	1.00	0.00	H
ATOM	310	2HG	GLUA	25142.299	-7.291	-0.501	1.00	0.00	H
ATOM	311	N	VALA	26143.665	-4.180	-2.768	1.00	0.00	N
ATOM	312	CA	VALA	26144.042	-3.740	-4.107	1.00	0.00	C
ATOM	313	C	VALA	26143.862	-4.863	-5.123	1.00	0.00	C
ATOM	314	O	VALA	26144.363	-5.971	-4.934	1.00	0.00	O
ATOM	315	CB	VALA	26145.503	-3.253	-4.149	1.00	0.00	C
ATOM	316	CG1	VALA	26145.828	-2.646	-5.506	1.00	0.00	C
ATOM	317	CG2	VALA	26145.767	-2.253	-3.033	1.00	0.00	C
ATOM	318	H	VALA	26144.210	-4.857	-2.317	1.00	0.00	H
ATOM	319	HA	VALA	26143.400	-2.915	-4.380	1.00	0.00	H

ATOM 320 HB VAL A 26146.149 -4.106 -3.999 1.00 0.00 H
 ATOM 321 1HG1 VAL A 26146.811 -2.968 -5.818 1.00 0.00 H
 ATOM 322 2HG1 VAL A 26145.808 -1.570 -5.433 1.00 0.00 H
 ATOM 323 3HG1 VAL A 26145.096 -2.972 -6.231 1.00 0.00 H
 ATOM 324 1HG2 VAL A 26144.984 -2.323 -2.292 1.00 0.00 H
 ATOM 325 2HG2 VAL A 26145.787 -1.253 -3.443 1.00 0.00 H
 ATOM 326 3HG2 VAL A 26146.718 -2.471 -2.572 1.00 0.00 H
 ATOM 327 N LYS A 27143.143 -4.569 -6.201 1.00 0.00 N
 ATOM 328 CA LYS A 27142.897 -5.554 -7.249 1.00 0.00 C
 ATOM 329 C LYS A 27144.207 -6.026 -7.870 1.00 0.00 C
 ATOM 330 O LYS A 27145.009 -5.218 -8.341 1.00 0.00 O
 ATOM 331 CB LYS A 27141.989 -4.964 -8.329 1.00 0.00 C
 ATOM 332 CG LYS A 27142.465 -3.622 -8.858 1.00 0.00 C
 ATOM 333 CD LYS A 27142.184 -3.476 -10.346 1.00 0.00 C
 ATOM 334 CE LYS A 27143.418 -3.782 -11.178 1.00 0.00 C
 ATOM 335 NZ LYS A 27143.080 -4.003 -12.612 1.00 0.00 N
 ATOM 336 H LYS A 27142.769 -3.668 -6.295 1.00 0.00 H
 ATOM 337 HA LYS A 27142.402 -6.400 -6.797 1.00 0.00 H
 ATOM 338 1HB LYS A 27141.939 -5.656 -9.158 1.00 0.00 H
 ATOM 339 2HB LYS A 27140.999 -4.834 -7.920 1.00 0.00 H
 ATOM 340 1HG LYS A 27141.954 -2.833 -8.327 1.00 0.00 H
 ATOM 341 2HG LYS A 27143.530 -3.538 -8.693 1.00 0.00 H
 ATOM 342 1HD LYS A 27141.398 -4.163 -10.622 1.00 0.00 H
 ATOM 343 2HD LYS A 27141.866 -2.463 -10.545 1.00 0.00 H
 ATOM 344 1HE LYS A 27144.102 -2.949 -11.104 1.00 0.00 H
 ATOM 345 2HE LYS A 27143.890 -4.670 -10.787 1.00 0.00 H
 ATOM 346 1HZ LYS A 27142.986 -3.090 -13.102 1.00 0.00 H
 ATOM 347 2HZ LYS A 27142.183 -4.521 -12.692 1.00 0.00 H
 ATOM 348 3HZ LYS A 27143.830 -4.557 -13.075 1.00 0.00 H
 ATOM 349 N GLU A 28144.419 -7.337 -7.869 1.00 0.00 N
 ATOM 350 CA GLU A 28145.632 -7.917 -8.434 1.00 0.00 C